

**Flood Control Project Maintenance  
Levee Inspections**  
**LMA District Cover Sheet**  
**Spring 2017 Levee Inspection Results**

**Reclamation District No. 0524 Middle Roberts Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection  
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2017 Levee Inspection Results**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	6.20
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	4/4/2017 - 4/5/2017			
DWR Inspector	Richard Willoughby			
Accompanied By	Mario Jaques RD 524			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	<b>0.00</b>	Rating **	A	Issue No.	<b>121</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD0524_01_s_2012_121				
Comment Code					
Inspector Comment					
The RD has a digital copy of the O&M manual.					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>123</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				
DWR ID	DWR_RD0524_01_s_2012_123				
Comment Code					
Inspector Comment					
No recent training.					

No Photos

LM Start	<b>0.00</b>	Rating **	M	Issue No.	<b>138</b>
LM End	<b>0.00</b>	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD0524_01_s_2013_138				
Comment Code					
Inspector Comment					
The LMA does not appear to have emergency supplies or equipment.					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	154
LM End	6.20	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.941175 °	37.870444 °
				-121.346095 °	-121.329876 °
DWR ID	DWR_RD0524_01_s_2017_154				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.00	Rating **	M	Issue No.	155
LM End	6.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.941175 °	37.870444 °
				-121.346095 °	-121.329876 °
DWR ID	DWR_RD0524_01_s_2017_155				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					

No Photos

LM Start	0.19	Rating **	U	Issue No.	5
LM End	0.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.939085 °	37.939085 °
				-121.343917 °	-121.343917 °
DWR ID	DWR_RD0524_01_s_2017_5				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: The erosion was discovered during 2013 spring levee inspection. Inspector comment: Erosion is located along the lower level of water-ward slope. [2016 Site ID:RD0524U01RM40.85]					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_5\_20170316\_00011.jpg



Close view of the erosion.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.19	Rating **	U	Issue No.	5 (cont)	
LM End	0.19	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.939085 °		37.939085 °
				-121.343917 °		-121.343917 °
DWR ID	DWR_RD0524_01_s_2017_5					
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: The erosion was discovered during 2013 spring levee inspection. Inspector comment: Erosion is located along the lower level of water-ward slope. [2016 Site ID:RD0524U01RM40.85]						

Photo 2 of 3 : SP\_2017\_RD0524\_107\_5\_20170316\_00012.jpg



Close view of the erosion.

LM Start	<b>0.19</b>	Rating **	U	Issue No.	<b>5 (cont)</b>
LM End	<b>0.19</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_5\_20170316\_00013.jpg



Close view of the erosion.

LM Start	0.21	Rating **	M	Issue No.	3
LM End	0.21	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.938890 °	37.938890 °
				-121.343657 °	-121.343657 °
DWR ID	DWR_RD0524_01_s_2016_3				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
No change in status.					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_3\_20170316\_00007.jpg



Looking west at 3" depression on levee crown. (Spring 2012)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.21	Rating **	M	Issue No.	3 (cont)	
LM End	0.21	Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Crown Surface / Depressions / Rutting			37.938890 °		37.938890 °
				-121.343657 °		-121.343657 °
DWR ID	DWR_RD0524_01_s_2016_3					
Comment Code						
C2 : Repair depressions or ruts in the crown or slope.						
Inspector Comment						
No change in status.						

LM Start	<b>0.21</b>	Rating **	M	Issue No.	<b>3 (cont)</b>
LM End	<b>0.21</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 3 : SP\_2017\_RD0524\_107\_3\_20170316\_00008.jpg



Looking west at depression on levee crown near waterward shoulder.

Photo 3 of 3 : SP\_2017\_RD0524\_107\_3\_20170316\_00009.jpg



Looking east at 3" depression on levee crown. (Spring 2012)

LM Start	0.23	Rating **	U	Issue No.	201
LM End	0.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.938648 °	37.938648 °
				-121.343480 °	-121.343480 °
DWR ID	DWR_RD0524_01_f_2016_201				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Untrimmed trees on waterward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_201\_20170316\_00232.jpg



Looking east at untrimmed tree on landward slope.

\* Location  
LS : Land Side N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable N : Not Inspected/Rated  
M : Minimally Acceptable C : Corrected  
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.27	Rating **	U	Issue No.	179
LM End	0.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.938438 °	37.938438 °
				-121.342883 °	-121.342883 °
DWR ID	DWR_RD0524_01_s_2014_179				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Tree blocking view of waterward slope.					

LM Start	<b>0.27</b>	Rating **	U	Issue No.	<b>179 (cont)</b>
LM End	<b>0.27</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 4 : SP\_2017\_RD0524\_107\_179\_20170316\_00212.jpg



Looking east at untrimmed tree on waterward slope. (Fall 2016)

Photo 2 of 4 : SP\_2017\_RD0524\_107\_179\_20170316\_00213.jpg



Looking east at untrimmed tree on waterward slope (Spring 2016)

LM Start	<b>0.27</b>	Rating **	U	Issue No.	<b>179 (cont)</b>
LM End	<b>0.27</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 4 : SP\_2017\_RD0524\_107\_179\_20170316\_00214.jpg



Looking west at untrimmed tree on waterward slope. (Spring 2015)

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.27	Rating **	U	Issue No.	179 (cont)	
LM End	0.27	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			37.938438 °	37.938438 °	
				-121.342883 °	-121.342883 °	
DWR ID	DWR_RD0524_01_s_2014_179					
Comment Code						
T2 : Thin trees to allow visibility of the ground and room to flood fight.						
Inspector Comment						
Tree blocking view of waterward slope.						

Photo 4 of 4 : SP\_2017\_RD0524\_107\_179\_20170316\_00215.jpg



Looking east at untrimmed tree on waterward slope. (Fall 2015)

LM Start	0.30	Rating **	U	Issue No.	174
LM End	0.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.938382 °	37.938382 °
				-121.342352 °	-121.342352 °
DWR ID	DWR_RD0524_01_f_2014_174				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes present at this site. No change at site during spring 2016 inspection.					
Active rodent activity during spring 2017 inspection. No change at site.					

Photo 1 of 4 : SP\_2017\_RD0524\_107\_174\_20170316\_00204.jpg



Looking southwest at several rodent holes on waterward slope. (Fall 2016)

LM Start	<b>0.30</b>	Rating **	U	Issue No.	<b>174 (cont)</b>
LM End	<b>0.30</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP\_2017\_RD0524\_107\_174\_20170316\_00205.jpg



Looking southeast at several rodent holes on waterward slope. (Spring 2016)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.30	Rating **	U	Issue No.	174 (cont)	
LM End	0.30	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.938382 °		37.938382 °
				-121.342352 °		-121.342352 °
DWR ID	DWR_RD0524_01_f_2014_174					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						
Several rodent holes present at this site. No change at site during spring 2016 inspection.						
Active rodent activity during spring 2017 inspection. No change at site.						

Photo 3 of 4 : SP\_2017\_RD0524\_107\_174\_20170316\_00206.jpg



Looking west at several rodent holes on waterward shoulder. (Spring 2015)

LM Start	<b>0.30</b>	Rating **	U	Issue No.	<b>174 (cont)</b>
LM End	<b>0.30</b>	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : SP\_2017\_RD0524\_107\_174\_20170316\_00207.jpg



Looking southeast at several rodent holes on waterward slope. (Fall 2015).

LM Start	0.34	Rating **	M	Issue No.	180
LM End	0.34	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.938461 °	37.938461 °
				-121.341626 °	-121.341626 °
DWR ID	DWR_RD0524_01_s_2014_180				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion is located along the lower level of waterward slope.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_180\_20170316\_00216.jpg



Looking southeast at erosion on waterward toe.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.34	Rating **	M	Issue No.	180 (cont)	
LM End	0.34	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.938461 °		37.938461 °
				-121.341626 °		-121.341626 °
DWR ID	DWR_RD0524_01_s_2014_180					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion is located along the lower level of waterward slope.						

Photo 2 of 2 : SP\_2017\_RD0524\_107\_180\_20170316\_00217.jpg



Looking northeast at erosion on waterward toe.

LM Start	0.40	Rating **	U	Issue No.	205
LM End	0.46	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.938625 °	37.938695 °
				-121.340479 °	-121.339420 °
DWR ID	DWR_RD0524_01_s_2016_205				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Several damage site within this reach.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_205\_20170316\_00237.jpg



Looking at slope damage on landward slope.

LM Start	<b>0.40</b>	Rating **	U	Issue No.	<b>205 (cont)</b>
LM End	<b>0.46</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_205\_20170316\_00238.jpg



Looking at slope damage on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Levee Inspection Report By Mile - Spring 2017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.40	Rating **	A/W	Issue No.	16 (cont)	
LM End	0.40	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.938870 °	37.938870 °	
				-121.340460 °	-121.340460 °	
DWR ID	DWR_RD0524_01_s_2017_16					
Comment Code						
Inspector Comment						
04/04/17: Site repaired						
07/25/2016: More vegetation observed at the site.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: No significant change at this site.						
08/07/2012: The erosion is at the upper levee slope, and likely caused by slope slip. The lower levee slope is covered with dense vegetation.						
[2016 Site ID:RD0524U01RM40.99]						

A photograph showing a riverbank with dense green vegetation, including tall reeds and shrubs, growing along the water's edge. The background shows a sandy, eroded bank under a clear sky.

Close view of the erosion.

LM Start	0.41	Rating **	U	Issue No.	170
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.938628 °	37.938688 °
				-121.340385 °	-121.339627 °
DWR ID	DWR_RD0524_01_s_2015_170				
Comment Code					
Inspector Comment					
Several slope instabilities within this reach.					

Looking at slope damage on waterward shoulder (Spring 2016)

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable                      N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable            C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable                      A/W : Acceptable but Monitor & Maintain	En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.41	Rating **	U	Issue No.	170 (cont)	
LM End	0.45	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.938628 °	37.938688 °	
				-121.340385 °	-121.339627 °	
DWR ID	DWR_RD0524_01_s_2015_170					
Comment Code						
Inspector Comment						
Several slope instabilities within this reach.						

Photo 2 of 3 : SP\_2017\_RD0524\_107\_170\_20170316\_00198.jpg



Looking at slope damage on waterward shoulder.

LM Start	<b>0.41</b>	Rating **	U	Issue No.	<b>170 (cont)</b>
LM End	<b>0.45</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_170\_20170316\_00199.jpg



Looking at waterward slope erosion.

LM Start	0.62	Rating **	U	Issue No.	11
LM End	0.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.938278 °	37.938247 °
				-121.336524 °	-121.336503 °
DWR ID	DWR_RD0524_01_s_2012_11				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Bamboo on waterward slope. Bamboo has been killed but still blocking view of waterward slope.					

Photo 1 of 5 : SP\_2017\_RD0524\_107\_11\_20170316\_00020.jpg



Looking at bamboo on waterward slope. (Spring 2016)

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.62	Rating **	U	Issue No.	11 (cont)	
LM End	0.63	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.938278 °		37.938247 °
				-121.336524 °		-121.336503 °
DWR ID	DWR_RD0524_01_s_2012_11					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Bamboo on waterward slope. Bamboo has been killed but still blocking view of waterward slope.						

LM Start	<b>0.62</b>	Rating **	U	Issue No.	<b>11 (cont)</b>
LM End	<b>0.63</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 5 : SP\_2017\_RD0524\_107\_11\_20170316\_00021.jpg



Looking at bamboo on waterside slope. (Fall 2015)

Photo 3 of 5 : SP\_2017\_RD0524\_107\_11\_20170316\_00022.jpg



Looking at dying bamboo on waterward slope. (Spring 2013)

LM Start	<b>0.62</b>	Rating **	U	Issue No.	<b>11 (cont)</b>
LM End	<b>0.63</b>	Issue Type +	Ma	Location *	WS

Photo 4 of 5 : SP\_2017\_RD0524\_107\_11\_20170316\_00023.jpg



Looking at bamboo on waterside slope. (Spring 2012)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.62	Rating **	U	Issue No.	11 (cont)	
LM End	0.63	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.938278 °		37.938247 °
				-121.336524 °		-121.336503 °
DWR ID	DWR_RD0524_01_s_2012_11					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Bamboo on waterward slope. Bamboo has been killed but still blocking view of waterward slope.						

Photo 5 of 5 : SP\_2017\_RD0524\_107\_11\_20170316\_00024.jpg



Looking at bamboo on waterside slope. (Fall Inspection 2012)

LM Start	0.63	Rating **	U	Issue No.	10
LM End	0.63	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.938247 °	37.938247 °
				-121.336503 °	-121.336503 °
DWR ID	DWR_RD0524_01_f_2015_10				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Erosion located next to and under bamboo.					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_10\_20170316\_00017.jpg



Looking east at waterside erosion appears to be caused by runoff.

LM Start	<b>0.63</b>	Rating **	U	Issue No.	<b>10 (cont)</b>
LM End	<b>0.63</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP\_2017\_RD0524\_107\_10\_20170316\_00018.jpg



* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.63	Rating **	U	Issue No.	10 (cont)	
LM End	0.63	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.938247 °		37.938247 °
				-121.336503 °		-121.336503 °
DWR ID	DWR_RD0524_01_f_2015_10					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Erosion located next to and under bamboo.						

Photo 3 of 3 : SP\_2017\_RD0524\_107\_10\_20170316\_00019.jpg



Looking east at erosion under bamboo on waterward slope.

LM Start	0.64	Rating **	M	Issue No.	13
LM End	0.65	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.938105 °	37.938023 °
				-121.336288 °	-121.336173 °
DWR ID	DWR_RD0524_01_s_2012_13				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Depression extend from shoulder to mid levee slope two site with this section.					

Photo 1 of 4 : SP\_2017\_RD0524\_107\_13\_20170316\_00026.jpg



Looking southeast at depression on waterward shoulder fall 2015

LM Start	<b>0.64</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>0.65</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 4 : SP\_2017\_RD0524\_107\_13\_20170316\_00027.jpg



Looking south at erosion on waterside shoulder.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.64	Rating **	M	Issue No.	13 (cont)	
LM End	0.65	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.938105 °		37.938023 °
				-121.336288 °		-121.336173 °
DWR ID	DWR_RD0524_01_s_2012_13					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
Depression extend from shoulder to mid levee slope two site with this section.						

Photo 3 of 4 : SP\_2017\_RD0524\_107\_13\_20170316\_00028.jpg



View of the erosion.

LM Start	<b>0.64</b>	Rating **	M	Issue No.	<b>13 (cont)</b>
LM End	<b>0.65</b>	Issue Type +	Ma	Location *	WS

Photo 4 of 4 : SP\_2017\_RD0524\_107\_13\_20170316\_00029.jpg



Update view of the erosion site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.67	Rating **	M	Issue No.	934
LM End	0.67	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.937891 °	37.937891 °
				-121.335939 °	-121.335939 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:17563 DS_ID:20592 EP_NO: 6035 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Flows from primer tank causing erosion on LS slope. FIELD_STRUCT_DESC: 48-inch pipe through levee 7.3 feet below crown. Siphon pumps and primer tank enclosed by cyclone fence on the landward shoulder. Gate valve at inlet sump 100-feet off LS toe. One concrete cutoff wall. (Permit No. 6035, 1968). FS Date: 8/16/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_17563\_29702.jpg



Signage for effluent pipe on WS shoulder.

LM Start	<b>0.67</b>	Rating **	M	Issue No.	<b>934 (cont)</b>
LM End	<b>0.67</b>	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP\_SP\_2017\_17563\_29701.jpg



Siphon Priming tank and associated pipes on LS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.67	Rating **	M	Issue No.	934 (cont)
LM End	0.67	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.937891 °	37.937891 °
				-121.335939 °	-121.335939 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:17563 DS_ID:20592 EP_NO: 6035 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Flows from primer tank causing erosion on LS slope. FIELD_STRUCT_DESC: 48-inch pipe through levee 7.3 feet below crown. Siphon pumps and primer tank enclosed by cyclone fence on the landward shoulder. Gate valve at inlet sump 100-feet off LS toe. One concrete cutoff wall. (Permit No. 6035, 1968). FS Date: 8/16/2013					

Photo 3 of 3 : UCIP\_SP\_2017\_17563\_29700.jpg



Vacuum pumps off LS toe.

LM Start	0.67	Rating **	U	Issue No.	14
LM End	0.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.937808 °	37.937808 °
				-121.335913 °	-121.335913 °
DWR ID	DWR_RD0524_01_s_2012_14				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Bamboo on waterward slope.Bamboo has been killed but still blocking view of levee slope.					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_14\_20170316\_00030.jpg



Looking south at dying bamboo on waterward slope. Fall 2015

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.67	Rating **	U	Issue No.	14 (cont)	
LM End	0.67	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Vegetation			37.937808 °	37.937808 °	
				-121.335913 °	-121.335913 °	
DWR ID	DWR_RD0524_01_s_2012_14					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Bamboo on waterward slope.Bamboo has been killed but still blocking view of levee slope.						

Photo 2 of 3 : SP\_2017\_RD0524\_107\_14\_20170316\_00031.jpg



Looking south at dying bamboo on waterward slope. (Spring 2013)

LM Start	<b>0.67</b>	Rating **	U	Issue No.	<b>14 (cont)</b>
LM End	<b>0.67</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_14\_20170316\_00032.jpg



Looking south at bamboo on waterside slope. (Fall 2012)

LM Start	0.71	Rating **	M	Issue No.	17
LM End	0.73	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.937222 °	37.937222 °
				-121.335277 °	-121.335277 °
DWR ID	DWR_RD0524_01_s_2017_17				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: The erosion site is immediately downstream of the RR bridge. [2016 Site ID:RD0524U01RM41.36]					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_17\_20170316\_00035.jpg



Close view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.72	Rating **	U	Issue No.	157
LM End	0.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.937290 °	37.937290 °
				-121.335417 °	-121.335417 °
DWR ID	DWR_RD0524_01_s_2017_157				
Comment Code					
Inspector Comment					
Slope damage caused by rain runoff on landward slope.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_157\_20170407\_00380.jpg



Looking west at slope damage caused by rain runoff on landward slope.

LM Start	<b>0.72</b>	Rating **	U	Issue No.	<b>157 (cont)</b>
LM End	<b>0.72</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_157\_20170407\_00381.jpg



Looking south at slope damage caused by rain runoff on landward slope.

LM Start	0.72	Rating **	U	Issue No.	156
LM End	0.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.937258 °	37.937258 °
				-121.335373 °	-121.335373 °
DWR ID	DWR_RD0524_01_s_2017_156				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Dense veg on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_156\_20170407\_00382.jpg



Looking west at dense untrimmed tree on landward slope.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.74	Rating **	M	Issue No.	935
LM End	0.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.936951 °	37.936951 °
				-121.335132 °	-121.335132 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41463 DS_ID:20595 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned and should be done so properly. FIELD_STRUCT_DESC: 2.5-inch telephone conduit through levee 2.0 feet below crown and under the channel. Conduit visible on WS shoulder. FS Date: 8/16/2013					

Photo 1 of 1 : UCIP\_SP\_2017\_41463\_29717.jpg



Conduit visible on WS shoulder next to bridge abutment. Cable appears to be abandoned.

LM Start	0.76	Rating **	U	Issue No.	21
LM End	0.77	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.936821 °	37.936821 °
				-121.334582 °	-121.334582 °
DWR ID	DWR_RD0524_01_s_2017_21				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: No significant change at this site.					
08/07/2012: The site has been visited by boat survey. No significant change observed.					
08/23/2011: The site is located immediately upstream of a Railroad bridge. Dense vegetation at the water line blocks the view of erosion.					
[2016 Site ID:RD0524U01RM41.39]					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_21\_20170316\_00044.jpg



Front view of the erosion site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.76	Rating **	U	Issue No.	21 (cont)	
LM End	0.77	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.936821 °		37.936821 °
				-121.334582 °		-121.334582 °
DWR ID	DWR_RD0524_01_s_2017_21					
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: No significant change at this site.						
08/07/2012: The site has been visited by boat survey. No significant change observed.						
08/23/2011: The site is located immediately upstream of a Railroad bridge. Dense vegetation at the water line blocks the view of erosion.						
[2016 Site ID:RD0524U01RM41.39]						

Photo 2 of 2 : SP\_2017\_RD0524\_107\_21\_20170316\_00045.jpg



Front view of the erosion.

LM Start	0.77	Rating **	U	Issue No.	262
LM End	0.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.936555 °	37.936555 °
				-121.334847 °	-121.334847 °
DWR ID	DWR_RD0524_01_s_2012_262				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation at landside toe along fence line.					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_262\_20170316\_00261.jpg



Looking west at dense vegetation at landward slope and toe fall 2015.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.77	Rating **	U	Issue No.	262 (cont)	
LM End	0.77	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.936555 °		37.936555 °
				-121.334847 °		-121.334847 °
DWR ID	DWR_RD0524_01_s_2012_262					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Dense vegetation at landside toe along fence line.						

LM Start	<b>0.77</b>	Rating **	U	Issue No.	<b>262 (cont)</b>
LM End	<b>0.77</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP\_2017\_RD0524\_107\_262\_20170316\_00262.jpg



Looking west at dense vegetation on landside toe. Spring 2014

Photo 3 of 3 : SP\_2017\_RD0524\_107\_262\_20170316\_00263.jpg



Looking southwest at vegetation on landward slope and toe. (Spring 2013)

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.78	Rating **	M	Issue No.	936
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.936474 °	37.936474 °
				-121.334830 °	-121.334830 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:17571					
DS_ID:20596					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Large hole in pipe at WS toe. Appears abandoned and should be done so properly.					
FIELD_STRUCT_DESC: 8-inch steel drain pipe through the levee 4.0 feet below the crown. Pump at the toe of the landward slope (not found 8/16/13). Siphon breaker in 24-inch cmp Riser on the waterward slope. Originally included in the 1964 O&M manual.					
FS Date: 8/16/2013					

Photo 1 of 2 : UCIP\_SP\_2017\_17571\_29719.jpg



Siphon breaker in 24-inch cmp riser on WS slope.

LM Start	<b>0.78</b>	Rating **	M	Issue No.	<b>936 (cont)</b>
LM End	<b>0.78</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : UCIP\_SP\_2017\_17571\_29718.jpg



Large hole in pipe at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.78	Rating **	U	Issue No.	76
LM End	0.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.936444 °	37.936444 °
				-121.334797 °	-121.334797 °
DWR ID	DWR_RD0524_01_s_2012_76				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_76\_20170316\_00124.jpg



Looking southwest at low hanging tree branches at landside toe.

LM Start	0.81	Rating **	C	Issue No.	2
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.936093 °	37.936004 °
				-121.334648 °	-121.334615 °
DWR ID	DWR_RD0524_01_f_2013_2				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
LMA repaired site with drain rock on landward slope.					

No Photos

LM Start	0.83	Rating **	U	Issue No.	22
LM End	0.84	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935930 °	37.935930 °
				-121.334133 °	-121.334133 °
DWR ID	DWR_RD0524_01_s_2017_22				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: Site was discovered during boat survey. The dense vegetation blocks a clear view of the erosion. Size of erosion site was very roughly estimated. [2016 Site ID:RD0524U01RM41.44]					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_22\_20170316\_00046.jpg



Close view of the erosion site.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.83	Rating **	U	Issue No.	22 (cont)	
LM End	0.84	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.935930 °	37.935930 °	
				-121.334133 °	-121.334133 °	
DWR ID	DWR_RD0524_01_s_2017_22					
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: Site was discovered during boat survey. The dense vegetation blocks a clear view of the erosion. Size of erosion site was very roughly estimated. [2016 Site ID:RD0524U01RM41.44]						

Photo 2 of 2 : SP\_2017\_RD0524\_107\_22\_20170316\_00047.jpg



Front view of the erosion.

LM Start	0.91	Rating **	U	Issue No.	33
LM End	0.91	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935576 °	37.935576 °
				-121.333202 °	-121.333202 °
DWR ID	DWR_RD0524_01_s_2017_33				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: No significant change at this site.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: The erosion site is immediately downstream of the riprap protection. [2016 Site ID:RD0524U01RM41.5]					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_33\_20170316\_00063.jpg



Front view of the erosion. Note the riprap protection near the site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.91	Rating **	U	Issue No.	33 (cont)	
LM End	0.91	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.935576 °	37.935576 °	
				-121.333202 °	-121.333202 °	
DWR ID	DWR_RD0524_01_s_2017_33					
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: No significant change at this site.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: The erosion site is immediately downstream of the riprap protection. [2016 Site ID:RD0524U01RM41.5]						

Photo 2 of 2 : SP\_2017\_RD0524\_107\_33\_20170316\_00064.jpg



Close view of the erosion.

LM Start	0.93	Rating **	U	Issue No.	77
LM End	1.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.935259°	37.935049°
				-121.332864°	-121.331334°
DWR ID	DWR_RD0524_01_s_2012_77				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_77\_20170316\_00125.jpg



Looking south at low hanging tree branches at landside toe.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.96	Rating **	M	Issue No.	20
LM End	0.96	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.935181 °	37.935181 °
				-121.332297 °	-121.332297 °
DWR ID	DWR_RD0524_01_f_2013_20				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	0.97	Rating **	M	Issue No.	937
LM End	0.97	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.935178 °	37.935178 °
				-121.332029 °	-121.332029 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22724 DS_ID:20597 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/16/2016 - Location may be at LM 0.92 (37.935267, -121.332985) rather than LM 0.974. Need to field verify (DWR UCIP - thatch) 8/16/2013 - Pipe abandoned and should be done so properly. (DWR UCIP -wwylie) FIELD_STRUCT_DESC: *Abandoned* 14-inch pipe through the levee 6.0 feet below the crown. Concrete pad for pump on WS shoulder. No pump or other appurtances remain. Originally included in the 1964 O&M manual. FS Date: 8/16/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_22724\_38442.jpg



Concrete pad for pump mount on WS shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.97	Rating **	M	Issue No.	937 (cont)	
LM End	0.97	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.935178	°	37.935178
				-121.332029	°	-121.332029
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:22724 DS_ID:20597 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 11/16/2016 - Location may be at LM 0.92 (37.935267, -121.332985) rather than LM 0.974. Need to field verify (DWR UCIP - thatch) 8/16/2013 - Pipe abandoned and should be done so properly. (DWR UCIP -wwylie) FIELD_STRUCT_DESC: *Abandoned* 14-inch pipe through the levee 6.0 feet below the crown. Concrete pad for pump on WS shoulder. No pump or other appurtances remain. Originally included in the 1964 O&M manual. FS Date: 8/16/2013						

LM Start	<b>0.97</b>	Rating **	M	Issue No.	<b>937 (cont)</b>
LM End	<b>0.97</b>	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP\_SP\_2017\_22724\_38441.jpg



Pipe visible on WS slope.

Photo 3 of 3 : UCIP\_SP\_2017\_22724\_38440.jpg



One way check valve closed on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.98	Rating **	A/W	Issue No.	938
LM End	0.98	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.935163 °	37.935163 °
				-121.331887 °	-121.331887 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:17575					
DS_ID:20598					
EP_NO: N/A					
Repair Type: No Action Needed					
Crossing Status: Found					
UCIP Comments:					
FIELD_STRUCT_DESC: *ABANDONED* 36-inch pipe through levee					
15.0 feet below crown. Landward end is not visible. Concrete headwall					
at outlet on WS slope is visible. Pipe appears to be abandoned in					
place. Slide gate on waterward side removed. Originally included in					
the 1964 O&M manual.					
FS Date: 8/16/2013					

Photo 1 of 2 : UCIP\_SP\_2017\_17575\_29736.jpg



Concrete headwall visible on WS slope.

LM Start	<b>0.98</b>	Rating **	A/W	Issue No.	<b>938 (cont)</b>
LM End	<b>0.98</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : UCIP\_SP\_2017\_17575\_29735.jpg



Slide gate removed from headwall on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	0.99	Rating **	M	Issue No.	158
LM End	1.02	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.935148 °	37.935007 °
				-121.331683 °	-121.331165 °
DWR ID	DWR_RD0524_01_s_2017_158				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Active rodent sighted.					

No Photos

LM Start	1.00	Rating **	U	Issue No.	47
LM End	1.00	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935410 °	37.935410 °
				-121.331560 °	-121.331560 °
DWR ID	DWR_RD0524_01_s_2017_47				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: No significant change at this site.					
08/07/2012: The erosion was discovered during the boat survey. [2016					
Site ID:RD0524U01RM41.58]					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_47\_20170316\_00089.jpg



Front view of the erosion.

LM Start	<b>1.00</b>	Rating **	U	Issue No.	<b>47 (cont)</b>
LM End	<b>1.00</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_47\_20170316\_00090.jpg



Close view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.02	Rating **	U	Issue No.	55
LM End	1.02	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.935078 °	37.935078 °
				-121.331134 °	-121.331134 °
DWR ID	DWR_RD0524_01_s_2017_55				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: No significant change at this site.					
08/07/2012: The site has been visited by boat survey. Site has been repaired, but new erosion occurred at the levee slope and immediately upstream of the repaired site.					
08/23/2011: The site is about 500 ft downstream of bridge. The levee toe seems to be protected, but the protection is being washed away.					
[2016 Site ID:RD0524U01RM41.59]					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_55\_20170316\_00099.jpg



Upstream view of the site.

LM Start	<b>1.02</b>	Rating **	U	Issue No.	<b>55 (cont)</b>
LM End	<b>1.02</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP\_2017\_RD0524\_107\_55\_20170316\_00100.jpg



Close view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.02	Rating **	U	Issue No.	55 (cont)	
LM End	1.02	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.935078 °	37.935078 °	
				-121.331134 °	-121.331134 °	
DWR ID	DWR_RD0524_01_s_2017_55					
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: No significant change at this site.						
08/07/2012: The site has been visited by boat survey. Site has been repaired, but new erosion occurred at the levee slope and immediately upstream of the repaired site.						
08/23/2011: The site is about 500 ft downstream of bridge. The levee toe seems to be protected, but the protection is being washed away.						
[2016 Site ID:RD0524U01RM41.59]						

Photo 3 of 3 : SP\_2017\_RD0524\_107\_55\_20170316\_00101.jpg



Front view of the erosion.

LM Start	1.06	Rating **	M	Issue No.	939
LM End	1.06	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.934778 °	37.934778 °
				-121.330460 °	-121.330460 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18703 DS_ID:20600 EP_NO: 2725B Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Given amount of rust on adjacent CMP riser, it may be appropriate to do a video inspection of this pipe. FIELD_STRUCT_DESC: 36-inch concrete encased pipe through levee 11.5 feet below crown. Pump in pump house on the landward side. Flap gate on the waterward end. Two concrete cutoff walls. Siphon breaker in 8-inch CMP riser unit on the landward slope (Permit No. 2725B, 1959). Included in the 1964 O&M manual. FS Date: 8/16/2013					

Photo 1 of 2 : UCIP\_SP\_2017\_18703\_31243.jpg



8-inch CMP standpipe on LS slope with pump house in background.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.06	Rating **	M	Issue No.	939 (cont)	
LM End	1.06	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.934778 °	37.934778 °	
				-121.330460 °	-121.330460 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:18703						
DS_ID:20600						
EP_NO: 2725B						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Given amount of rust on adjacent CMP riser, it may be appropriate to do a video inspection of this pipe.						
FIELD_STRUCT_DESC: 36-inch concrete encased pipe through levee 11.5 feet below crown. Pump in pump house on the landward side.						
Flap gate on the waterward end. Two concrete cutoff walls. Siphon breaker in 8-inch CMP riser unit on the landward slope (Permit No. 2725B, 1959). Included in the 1964 O&M manual.						
FS Date: 8/16/2013						

Photo 2 of 2 : UCIP\_SP\_2017\_18703\_31242.jpg



Caution sign on WS shoulder for pipe crossings.

LM Start	1.07	Rating **	M	Issue No.	940
LM End	1.07	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.934750 °	37.934750 °
				-121.330405 °	-121.330405 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:17589 DS_ID:20601 EP_NO: 2725B Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: CMP riser severely corroded. Good indicator of potential condition of 48-inch pipe. Recommend Video Inspection. FIELD_STRUCT_DESC: 48-inch CMP sewer line through the levee 16.0 feet below crown. Runs underneath the river and through levee with 36-inch CMP riser/inspection chamber on landward shoulder. Distribution/pumphouse on LS toe (Permit No. 2725B, 1959). Included in the 1964 O&M manual. FS Date: 8/16/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_17589\_29748.jpg



CMP riser for access/inspection on LS slope with distribution/pumphouse on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.07	Rating **	M	Issue No.	940 (cont)	
LM End	1.07	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.934750 °	37.934750 °	
				-121.330405 °	-121.330405 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:17589 DS_ID:20601 EP_NO: 2725B Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: CMP riser severely corroded. Good indicator of potential condition of 48-inch pipe. Recommend Video Inspection. FIELD_STRUCT_DESC: 48-inch CMP sewer line through the levee 16.0 feet below crown. Runs underneath the river and through levee with 36-inch CMP riser/inspection chamber on landward shoulder. Distribution/pumphouse on LS toe (Permit No. 2725B, 1959). Included in the 1964 O&M manual. FS Date: 8/16/2013						

Photo 2 of 3 : UCIP\_SP\_2017\_17589\_29747.jpg



Caution sign on WS shoulder.

LM Start	<b>1.07</b>	Rating **	M	Issue No.	<b>940 (cont)</b>
LM End	<b>1.07</b>	Issue Type +	En	Location *	WS

Photo 3 of 3 : UCIP\_SP\_2017\_17589\_29746.jpg



36-inch CMP riser on LS slope severely corroded with various holes along seams.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.07	Rating **	U	Issue No.	18
LM End	1.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.934715 °	37.934715 °
				-121.330343 °	-121.330343 °
DWR ID	DWR_RD0524_01_s_2012_18				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope damage extend from shoulder to middle of slope.					

Photo 1 of 7 : SP\_2017\_RD0524\_107\_18\_20170316\_00036.jpg



Looking south at caving on landward shoulder. (Fall 2015)

LM Start	<b>1.07</b>	Rating **	U	Issue No.	<b>18 (cont)</b>
LM End	<b>1.07</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 7 : SP\_2017\_RD0524\_107\_18\_20170316\_00038.jpg



Landward slope damage. Spring 2014

LM Start	<b>1.07</b>	Rating **	U	Issue No.	<b>18 (cont)</b>
LM End	<b>1.07</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 7 : SP\_2017\_RD0524\_107\_18\_20170316\_00039.jpg



Updated picture of the erosion site on the landside shoulder. Fall 2014

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.07	Rating **	U	Issue No.	18 (cont)	
LM End	1.07	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.934715 °		37.934715 °
				-121.330343 °		-121.330343 °
DWR ID	DWR_RD0524_01_s_2012_18					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
Slope damage extend from shoulder to middle of slope.						

LM Start	<b>1.07</b>	Rating **	U	Issue No.	<b>18 (cont)</b>
LM End	<b>1.07</b>	Issue Type +	Ma	Location *	LS

Photo 4 of 7 : SP\_2017\_RD0524\_107\_18\_20170316\_00037.jpg



Looking south at caving on landward shoulder. (Spring 2015)

Photo 5 of 7 : SP\_2017\_RD0524\_107\_18\_20170316\_00040.jpg



Looking south at caving on landside shoulder. (Spring 2013)

LM Start	<b>1.07</b>	Rating **	U	Issue No.	<b>18 (cont)</b>
LM End	<b>1.07</b>	Issue Type +	Ma	Location *	LS

Photo 6 of 7 : SP\_2017\_RD0524\_107\_18\_20170316\_00041.jpg



Looking at updated slope stability as of Fall 2013.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.07	Rating **	U	Issue No.	18 (cont)	
LM End	1.07	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.934715 °		37.934715 °
				-121.330343 °		-121.330343 °
DWR ID	DWR_RD0524_01_s_2012_18					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
Slope damage extend from shoulder to middle of slope.						

Photo 7 of 7 : SP\_2017\_RD0524\_107\_18\_20170316\_00042.jpg



Updated view from above the slope stability.

LM Start	1.12	Rating **	M	Issue No.	171
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.934225 °	37.933815 °
				-121.329693 °	-121.329242 °
DWR ID	DWR_RD0524_01_s_2015_171				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings left on waterward shoulder and slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_171\_20170316\_000200.jpg



Looking south at prunings on waterward shoulders.

LM Start	1.13	Rating **	M	Issue No.	19
LM End	1.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.934118 °	37.933775 °
				-121.329657 °	-121.329305 °
DWR ID	DWR_RD0524_01_s_2012_19				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_19\_20170316\_00043.jpg



Looking southeast at low hanging tree branches at waterside toe.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.15	Rating **	U	Issue No.	60
LM End	1.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.933347 °	37.933347 °
				-121.329110 °	-121.329110 °
DWR ID	DWR_RD0524_01_s_2017_60				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: No significant change at this site. 08/07/2012: The site has been visited by boat survey. No significant change observed 08/23/2011: No significant change observed on site. 09/07/2010: No significant change observed on site. Vegetation is visible at the water line. There is an exposed pipe discharge partially hanging at the mid-slope, possibly still used for discharging irrigation/runoff water. There is minimal rip rap protection along the bank, and what's left of it is no longer adequately protecting the bank. 9/29/2009: Site consists of a 400-foot long eroding bank with minimal vegetation and protection; the existing rip rap has sloughed, rendering it useless; note that there is an exposed section of a pipe. 10/18/2006: There is extensive loss of rip rap on some sections; sewage disposal pond is on the landside of the levee; there is an exposed pipe outlet "hanging" from the upper slope. [2016 Site ID:RD0524U01RM41.79]					

LM Start	<b>1.15</b>	Rating **	U	Issue No.	<b>60 (cont)</b>
LM End	<b>1.23</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP\_2017\_RD0524\_107\_60\_20170316\_00105.jpg



Direct view of the site.

Photo 2 of 3 : SP\_2017\_RD0524\_107\_60\_20170316\_00106.jpg



Close view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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# Reclamation District No. 0524 Middle Roberts Island

Close view of the site. Note the tree near the erosion site.

Looking southwest at dense veg at landward toe and berm. (Fall 2016)

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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.16	Rating **	U	Issue No.	915 (cont)	
LM End	1.23	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.933775 °		37.932784 °
				-121.329250 °		-121.328765 °
DWR ID	DWR_RD0524_01_s_2012_915					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						
Control veg at landward toe and berm.						

LM Start	<b>1.16</b>	Rating **	U	Issue No.	<b>915 (cont)</b>
LM End	<b>1.23</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : SP\_2017\_RD0524\_107\_915\_20170316\_00270.jpg



Looking northwest at dense veg at landward toe and berm. (Spring 2016)

Photo 3 of 4 : SP\_2017\_RD0524\_107\_915\_20170316\_00271.jpg



Looking southwest at dense veg at landward toe and berm. (Spring 2015)

LM Start	<b>1.16</b>	Rating **	U	Issue No.	<b>915 (cont)</b>
LM End	<b>1.23</b>	Issue Type +	Ma	Location *	LS

Photo 4 of 4 : SP\_2017\_RD0524\_107\_915\_20170316\_00272.jpg



Looking southwest at dense veg. on landside toe. (Fall 2015)

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.17	Rating **	U	Issue No.	206
LM End	1.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.933591 °	37.933591 °
				-121.329154 °	-121.329154 °
DWR ID	DWR_RD0524_01_s_2016_206				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_206\_20170316\_00239.jpg



Looking southwest a untrimmed tree at landward toe. (Spring 2016)

LM Start	1.25	Rating **	U	Issue No.	263
LM End	1.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.932533 °	37.932533 °
				-121.328650 °	-121.328650 °
DWR ID	DWR_RD0524_01_s_2012_263				
Comment Code					
RA : Ramp					
Inspector Comment					
Unauthorized ramps on landside slope. Ramps were caused by vehicle traffic.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_263\_20170316\_00264.jpg



Looking northwest at unauthorized ramp on landside slope.

LM Start	<b>1.25</b>	Rating **	U	Issue No.	<b>263 (cont)</b>
LM End	<b>1.25</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_263\_20170316\_00265.jpg



Looking south at unauthorized ramp on landside slope.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.29	Rating **	U	Issue No.	71
LM End	1.32	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.931858 °	37.931858 °
				-121.328300 °	-121.328300 °
DWR ID	DWR_RD0524_01_s_2017_71				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: New signs of animal activity were found.					
08/07/2012: The site was first reported in 2012 spring levee inspection report. [2016 Site ID:RD0524U01RM41.92]					

LM Start	<b>1.29</b>	Rating **	U	Issue No.	<b>71 (cont)</b>
LM End	<b>1.32</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP\_2017\_RD0524\_107\_71\_20170316\_00115.jpg



Front view of the erosion.

Photo 2 of 3 : SP\_2017\_RD0524\_107\_71\_20170316\_00116.jpg



Front view of the erosion.

LM Start	<b>1.29</b>	Rating **	U	Issue No.	<b>71 (cont)</b>
LM End	<b>1.32</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_71\_20170316\_00117.jpg



Front view of the erosion. Note the drainage pipe on the site.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.29	Rating **	U	Issue No.	941
LM End	1.29	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.931977 °	37.931977 °
				-121.328401 °	-121.328401 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51319  
DS\_ID:20602  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/16/2016 same as previous inspection both ends are open. This pipe does not appear in use. Need to contact owner to determine status of crossing. If the crossing is abandoned or in use, owner will need to coordinate with the CVFPB to comply with Title 23 requirements. (O. Magana - DWR UCIP)08/16/2013 Pipe appears to be open on both ends. Abandoned and should be done so properly. (W. Wylie - DWR UCIP)  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 12-inch steel drainage pipe through levee, 3.5 feet below crown. Pipe is opened on the waterside (WS) and landside (LS) ends. The pump house referenced in O&M manual is missing from the LS (2013). [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin River O&M Unit No. 7, April 1964, (HLM 1.31)].  
FS Date: 11/16/2016

LM Start	<b>1.29</b>	Rating **	U	Issue No.	<b>941 (cont)</b>
LM End	<b>1.29</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP\_SP\_2017\_51319\_29862.jpg



Pipe visible and open on WS slope.

Photo 2 of 3 : UCIP\_SP\_2017\_51319\_29861.jpg



Pipe open and visible on LS slope.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

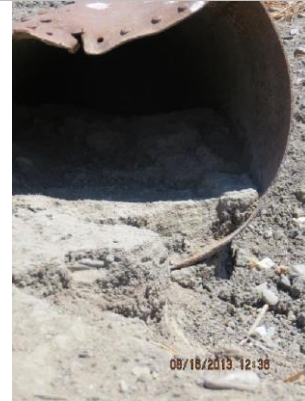
**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.29	Rating **	U	Issue No.	941 (cont)
LM End	1.29	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.931977 °	37.931977 °
				-121.328401 °	-121.328401 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51319 DS_ID:20602 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 11/16/2016 same as previous inspection both ends are open. This pipe does not appear in use. Need to contact owner to determine status of crossing. If the crossing is abandoned or in use, owner will need to coordinate with the CVFPB to comply with Title 23 requirements. (O. Magana - DWR UCIP)08/16/2013 Pipe appears to be open on both ends. Abandoned and should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 12-inch steel drainage pipe through levee, 3.5 feet below crown. Pipe is opened on the waterside (WS) and landside (LS) ends. The pump house referenced in O&M manual is missing from the LS (2013). [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin River O&M Unit No. 7, April 1964, (HLM 1.31)]. FS Date: 11/16/2016					

Photo 3 of 3 : UCIP\_SP\_2017\_51319\_29860.jpg



Pipe appears open on both ends. View from LS slope.

LM Start	1.32	Rating **	M	Issue No.	130
LM End	1.36	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.931658 °	37.931085 °
				-121.328255 °	-121.328112 °
DWR ID	DWR_RD0524_01_s_2013_130				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.36	Rating **	U	Issue No.	172
LM End	1.40	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.931085 °	37.930517 °
				-121.328112 °	-121.328072 °
DWR ID	DWR_RD0524_01_s_2015_172				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
Levee crown depression several inches below original crown elevation. Section should be survey to determine proper elevation.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_172\_20170316\_00201.jpg



Looking east at depression on levee crown.

LM Start	<b>1.36</b>	Rating **	U	Issue No.	<b>172 (cont)</b>
LM End	<b>1.40</b>	Issue Type +	Ma	Location *	CR

Photo 2 of 2 : SP\_2017\_RD0524\_107\_172\_20170316\_00202.jpg



Looking southeast at depression on levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.39	Rating **	U	Issue No.	79
LM End	1.39	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.930575 °	37.930575 °
				-121.328090 °	-121.328090 °
DWR ID	DWR_RD0524_01_s_2017_79				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site was first reported in 2012 spring levee inspection report. The site is located about 750 ft downstream of SR 4 Bridge.					
[2016 Site ID:RD0524U01RM42.03]					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_79\_20170316\_00127.jpg



Front view of the erosion.

LM Start	<b>1.39</b>	Rating **	U	Issue No.	<b>79 (cont)</b>
LM End	<b>1.39</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP\_2017\_RD0524\_107\_79\_20170316\_00128.jpg



Close view of the erosion.

LM Start	<b>1.39</b>	Rating **	U	Issue No.	<b>79 (cont)</b>
LM End	<b>1.39</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_79\_20170316\_00129.jpg



Close view of the erosion.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.45	Rating **	U	Issue No.	89
LM End	1.47	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.929650 °	37.929650 °
				-121.328110 °	-121.328110 °
DWR ID	DWR_RD0524_01_s_2017_89				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: The site is located approximately 400 ft. downstream SR 4 Bridge. Dense vegetation is visible at the toe. [2016 Site ID:RD0524U01RM42.09]					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_89\_20170316\_00142.jpg



Close view of the erosion. Note the vegetation at the site.

LM Start	<b>1.45</b>	Rating **	U	Issue No.	<b>89 (cont)</b>
LM End	<b>1.47</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_89\_20170316\_00143.jpg



Close view of the erosion.

LM Start	1.49	Rating **	U	Issue No.	916
LM End	1.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.929118 °	37.929118 °
				-121.328368 °	-121.328368 °
DWR ID	DWR_RD0524_01_s_2012_916				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Untrimmed trees and dense vegetation on landward toe.					

Photo 1 of 4 : SP\_2017\_RD0524\_107\_916\_20170316\_00273.jpg



Looking at dense trees on landward slope and toe fall 2015

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

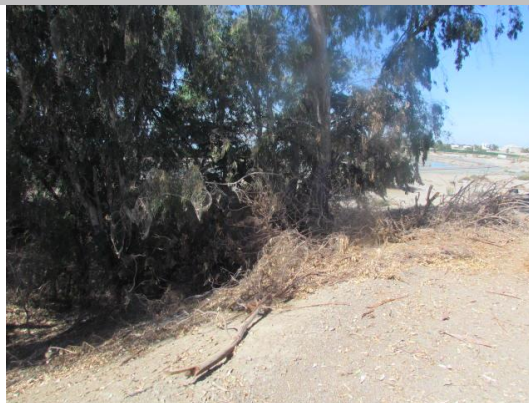
**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.49	Rating **	U	Issue No.	916 (cont)	
LM End	1.49	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			37.929118 °		37.929118 °
				-121.328368 °		-121.328368 °
DWR ID	DWR_RD0524_01_s_2012_916					
Comment Code						
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.						
Inspector Comment						
Untrimmed trees and dense vegetation on landward toe.						

LM Start	<b>1.49</b>	Rating **	U	Issue No.	<b>916 (cont)</b>
LM End	<b>1.49</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : SP\_2017\_RD0524\_107\_916\_20170316\_00274.jpg



Looking at trees on landside slope. (Fall 2012)

Photo 3 of 4 : SP\_2017\_RD0524\_107\_916\_20170316\_00275.jpg



Looking at dense veg. on landside slope and toe.

LM Start	<b>1.49</b>	Rating **	U	Issue No.	<b>916 (cont)</b>
LM End	<b>1.49</b>	Issue Type +	Ma	Location *	LS

Photo 4 of 4 : SP\_2017\_RD0524\_107\_916\_20170316\_00276.jpg



Dense vegetation on landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	<b>1.54</b>	Rating **	M	Issue No.	<b>942</b>
LM End	<b>1.54</b>	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.928429°	37.928429°	
			-121.328297°	-121.328297°	

DWR ID	
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**Comment Code**

**Inspector Comment**

FS\_ID:17798  
DS\_ID:20605  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Indicator Found  
UCIP Comments: No permit identified for this crossing.  
FIELD\_STRUCT\_DESC: Fiber optics cable crossing. USAA marker flags over crown along alignment of gate.  
FS Date: 8/20/2013

LM Start	<b>1.54</b>	Rating **	M	Issue No.	<b>942 (cont)</b>
LM End	<b>1.54</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2017\_17798\_29935.jpg



USAA markers along alignment at gate.

Photo 2 of 2 : UCIP\_SP\_2017\_17798\_29934.jpg



USAA markers along alignment at gate.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.55	Rating **	A/W	Issue No.	23
LM End	1.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.928388 °	37.927797 °
				-121.328280 °	-121.327854 °
DWR ID	DWR_RD0524_01_s_2012_23				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_23\_20170316\_00048.jpg



Looking southwest at dense veg on landward slope. (Fall 2016)

LM Start	1.55	Rating **	U	Issue No.	202
LM End	1.55	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.928372 °	37.928372 °
				-121.328283 °	-121.328283 °
DWR ID	DWR_RD0524_01_f_2016_202				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Large hole (looks like fences post or telephone pole) on waterward shoulder.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_202\_20170316\_00233.jpg



Looking at hole on waterward shoulder.

LM Start	<b>1.55</b>	Rating **	U	Issue No.	<b>202 (cont)</b>
LM End	<b>1.55</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_202\_20170316\_00234.jpg



Looking at large hole (Fence/telephone post hole) on waterward shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.56	Rating **	U	Issue No.	90
LM End	1.62	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.927770 °	37.927770 °
				-121.327870 °	-121.327870 °
DWR ID	DWR_RD0524_01_s_2017_90				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site has been visited by boat survey. No significant change observed					
08/23/2011: No significant change observed on site. Trees concerned still in place.					
09/07/2010: No significant change observed on site. The concern here is the undermining of the levee toe where most of trees are. There are erosion pockets lined along the lower slope and at the base of the trees, exposing tree roots. There is minimal slope protection.					
09/29/2009: The lower slope is lined with minor erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge is possibly causing a scour to occur, eroding the bank. [2016 Site ID:RD0524U01RM42.2]					

LM Start	<b>1.56</b>	Rating **	U	Issue No.	<b>90 (cont)</b>
LM End	<b>1.62</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP\_2017\_RD0524\_107\_90\_20170316\_00144.jpg



Front view of the site where undermining has occurred.

Photo 2 of 3 : SP\_2017\_RD0524\_107\_90\_20170316\_00145.jpg



Close view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.56	Rating **	U	Issue No.	90 (cont)	
LM End	1.62	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR Erosion Survey			37.927770 °	37.927770 °	
				-121.327870 °	-121.327870 °	
DWR ID	DWR_RD0524_01_s_2017_90					
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The site has been visited by boat survey. No significant change observed						
08/23/2011: No significant change observed on site. Trees concerned still in place.						
09/07/2010: No significant change observed on site. The concern here is the undermining of the levee toe where most of trees are. There are erosion pockets lined along the lower slope and at the base of the trees, exposing tree roots. There is minimal slope protection.						
09/29/2009: The lower slope is lined with minor erosion pockets; some tree roots are exposed; there is visible undermining of the levee toe; site is immediately upstream of the Highway 4 Bridge; the bridge is possibly causing a scour to occur, eroding the bank. [2016 Site ID:RD0524U01RM42.2]						

Photo 3 of 3 : SP\_2017\_RD0524\_107\_90\_20170316\_00146.jpg



Close view of the erosion at the levee toe.

LM Start	1.58	Rating **	U	Issue No.	173
LM End	1.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.927975 °	37.927975 °
				-121.328088 °	-121.328088 °
DWR ID	DWR_RD0524_01_s_2015_173				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Tree is located on landward shoulder and crown should be removed.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_173\_20170316\_00203.jpg



Looking northwest at tree on within levee crown.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.59	Rating **	M	Issue No.	136
LM End	1.59	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.927775 °	37.927775 °
				-121.327860 °	-121.327860 °
DWR ID	DWR_RD0524_01_s_2013_136				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Waterward shoulder caving.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_136\_20170316\_00193.jpg



Looking south at depression on levee crown near waterward shoulder.

LM Start	1.60	Rating **	U	Issue No.	24
LM End	1.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.927635 °	37.927540 °
				-121.327812 °	-121.327648 °
DWR ID	DWR_RD0524_01_s_2012_24				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Vegetation blocking landward toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_24\_20170316\_00049.jpg



Looking northwest at dense veg on waterward slope.

LM Start	1.60	Rating **	U	Issue No.	25
LM End	1.61	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.927635 °	37.927540 °
				-121.327812 °	-121.327648 °
DWR ID	DWR_RD0524_01_s_2012_25				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_25\_20170316\_00050.jpg



Looking northwest at dense veg on waterward slope.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.60	Rating **	U	Issue No.	25 (cont)	
LM End	1.61	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.927635 °		37.927540 °
				-121.327812 °		-121.327648 °
DWR ID	DWR_RD0524_01_s_2012_25					
Comment Code						
V2 : Remove the wild growth other than native grasses from the levee slopes.						
Inspector Comment						

Photo 2 of 3 : SP\_2017\_RD0524\_107\_25\_20170316\_00051.jpg



Looking northwest at end of dense veg on waterward slope.

LM Start	<b>1.60</b>	Rating **	U	Issue No.	<b>25 (cont)</b>
LM End	<b>1.61</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_25\_20170316\_00052.jpg



Looking southwest at dense veg on waterward slope.

LM Start	1.62	Rating **	M	Issue No.	26
LM End	1.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.927507 °	37.927295 °
				-121.327593 °	-121.327298 °
DWR ID	DWR_RD0524_01_s_2012_26				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Several erosions along this reach.					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_26\_20170316\_00053.jpg



Looking south at waterward erosion.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.62	Rating **	M	Issue No.	26 (cont)	
LM End	1.64	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.927507 °	37.927295 °	
				-121.327593 °	-121.327298 °	
DWR ID	DWR_RD0524_01_s_2012_26					
Comment Code						
E1 : Note and monitor erosion site.						
Inspector Comment						
Several erosions along this reach.						

Photo 2 of 3 : SP\_2017\_RD0524\_107\_26\_20170316\_00054.jpg



Looking east at waterward erosion.

LM Start	<b>1.62</b>	Rating **	M	Issue No.	<b>26 (cont)</b>
LM End	<b>1.64</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_26\_20170316\_00055.jpg



Looking east at waterward erosion and depression.

LM Start	1.64	Rating **	U	Issue No.	39
LM End	1.64	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.927372 °	37.927372 °
				-121.327278 °	-121.327278 °
DWR ID	DWR_RD0524_01_s_2012_39				
Comment Code					
PO : Pole					
Inspector Comment					
Landowner constructed boat dock without permit.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_39\_20170316\_00074.jpg



Looking at garbage on waterside slope.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.64	Rating **	U	Issue No.	39 (cont)	
LM End	1.64	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.927372 °	37.927372 °	
				-121.327278 °	-121.327278 °	
DWR ID	DWR_RD0524_01_s_2012_39					
Comment Code						
PO : Pole						
Inspector Comment						
Landowner constructed boat dock without permit.						

Photo 2 of 2 : SP\_2017\_RD0524\_107\_39\_20170316\_00075.jpg



Looking east at non-permitted boat dock.

LM Start	1.65	Rating **	M	Issue No.	207
LM End	1.71	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.927237 °	37.926621 °
				-121.327183 °	-121.326400 °
DWR ID	DWR_RD0524_01_s_2016_207				
Comment Code					
LI : Landscape Irrigation					
Inspector Comment					
Sprinklers on landward shoulder					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_207\_20170316\_00240.jpg



Looking south at sprinkler line and sprinklers on landward shoulder.

LM Start	<b>1.65</b>	Rating **	M	Issue No.	<b>207 (cont)</b>
LM End	<b>1.71</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_207\_20170316\_00241.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.65	Rating **	N	Issue No.	8
LM End	1.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.927255 °	37.926855 °
				-121.327137 °	-121.326672 °
DWR ID	DWR_RD0524_01_s_2012_8				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Several tree stumps on waterside shoulder.					

No Photos

LM Start	1.67	Rating **	U	Issue No.	45
LM End	1.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.927018 °	37.927018 °
				-121.326872 °	-121.326872 °
DWR ID	DWR_RD0524_01_s_2012_45				
Comment Code					
ST : Stairway					
Inspector Comment					
Stairs and retaining wall					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_45\_20170316\_00082.jpg



Looking northeast at non-permitted concrete stairs on waterside slope.

LM Start	<b>1.67</b>	Rating **	U	Issue No.	<b>45 (cont)</b>
LM End	<b>1.67</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP\_2017\_RD0524\_107\_45\_20170316\_00083.jpg



Looking southwest at retaining wall connected to concrete stairs.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.67	Rating **	U	Issue No.	45 (cont)	
LM End	1.67	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.927018 °	37.927018 °	
				-121.326872 °	-121.326872 °	
DWR ID	DWR_RD0524_01_s_2012_45					
Comment Code						
ST : Stairway						
Inspector Comment						
Stairs and retaining wall						

Photo 3 of 3 : SP\_2017\_RD0524\_107\_45\_20170316\_00084.jpg



Looking west at concrete stairs on waterside slope.

LM Start	1.69	Rating **	M	Issue No.	27
LM End	1.70	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.926728 °	37.926730 °
				-121.326597 °	-121.326508 °
DWR ID	DWR_RD0524_01_s_2012_27				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope damage several feet long and greater than one inch deep.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_27\_20170316\_00056.jpg



Looking south at landward slope depression.

LM Start	1.73	Rating **	U	Issue No.	28
LM End	1.73	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.926322 °	37.926322 °
				-121.326115 °	-121.326115 °
DWR ID	DWR_RD0524_01_s_2012_28				
Comment Code					
GA : Garbage					
Inspector Comment					
Large pruning piles on landside slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_28\_20170316\_00057.jpg



Looking west at pruning and garbage piles at landward berm.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.75	Rating **	U	Issue No.	46
LM End	1.76	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.926152 °	37.925993 °
				-121.325927 °	-121.325777 °
DWR ID	DWR_RD0524_01_s_2012_46				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree limbs on landward slope.					

Photo 1 of 4 : SP\_2017\_RD0524\_107\_46\_20170316\_00085.jpg



Looking south at tree limbs on landward slope.

LM Start	<b>1.75</b>	Rating **	U	Issue No.	<b>46 (cont)</b>
LM End	<b>1.76</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : SP\_2017\_RD0524\_107\_46\_20170316\_00086.jpg



Looking southwest at tree limbs on landward slope.

LM Start	<b>1.75</b>	Rating **	U	Issue No.	<b>46 (cont)</b>
LM End	<b>1.76</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : SP\_2017\_RD0524\_107\_46\_20170316\_00087.jpg



Looking south at tree limbs on landward slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.75	Rating **	U	Issue No.	46 (cont)	
LM End	1.76	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			37.926152 °	37.925993 °	
				-121.325927 °	-121.325777 °	
DWR ID	DWR_RD0524_01_s_2012_46					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Downed tree limbs on landward slope.						

Photo 4 of 4 : SP\_2017\_RD0524\_107\_46\_20170316\_00088.jpg



Looking southwest at dense vegetation and low hanging tree branches on landside slope and toe.

LM Start	1.80	Rating **	M	Issue No.	943
LM End	1.80	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.925480 °	37.925480 °
				-121.325358 °	-121.325358 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21866 DS_ID:24032 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for crossing. FIELD_STRUCT_DESC: 12-inch wrapped steel irrigation pipe through the levee at an unknown depth below the crown. Pump, butterfly valves, vent, and siphon breaker at concrete pad 50-feet off LS toe. Siphon breaker in 14-inch concrete standpipe on LS shoulder. FS Date: 8/20/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_21866\_37124.jpg



Pipe visible at lower left.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.80	Rating **	M	Issue No.	943 (cont)
LM End	1.80	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.925480 °	37.925480 °
				-121.325358 °	-121.325358 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:21866  
DS\_ID:24032  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: No permit identified for crossing.  
FIELD\_STRUCT\_DESC: 12-inch wrapped steel irrigation pipe through the levee at an unknown depth below the crown. Pump, butterfly valves, vent, and siphon breaker at concrete pad 50-feet off LS toe. Siphon breaker in 14-inch concrete standpipe on LS shoulder.  
FS Date: 8/20/2013

LM Start	<b>1.80</b>	Rating **	M	Issue No.	<b>943 (cont)</b>
LM End	<b>1.80</b>	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP\_SP\_2017\_21866\_37123.jpg



Pumping plant off LS toe.

Photo 3 of 3 : UCIP\_SP\_2017\_21866\_37122.jpg



Pumping plant with siphon breaker, vents, and butterfly valves.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.81	Rating **	M	Issue No.	944
LM End	1.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.925429 °	37.925429 °
				-121.325323 °	-121.325323 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:17847					
DS_ID:20609					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: 14-inch pipe through levee 20.0 feet below crown, 2 pumps and gate valves discharge into surge tank in pump house on the waterward slope. Concrete distribution box removed from the waterward slope. Abandoned 36-inch diameter concrete standpipe on LS toe next to service pole. Originally included in the 1964 O&M manual.					
FS Date: 8/20/2013					

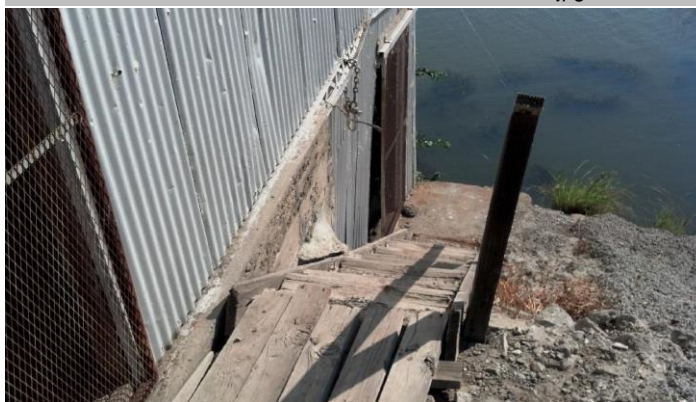
LM Start	<b>1.81</b>	Rating **	M	Issue No.	<b>944 (cont)</b>
LM End	<b>1.81</b>	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP\_SP\_2017\_17847\_29962.jpg



Pipes and pumphouse on WS slope.

Photo 2 of 3 : UCIP\_SP\_2017\_17847\_29961.jpg



Steps to pump on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

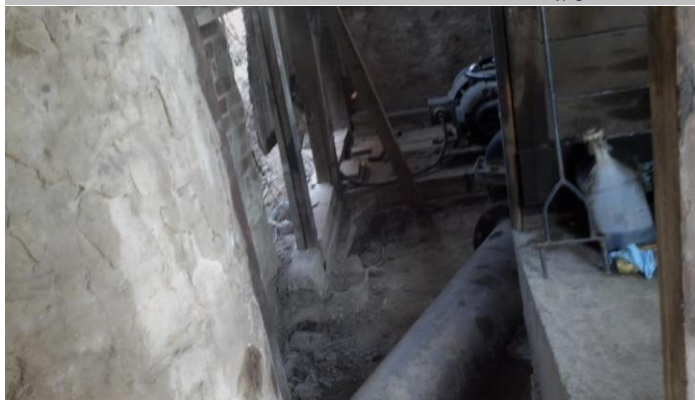
**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.81	Rating **	M	Issue No.	944 (cont)	
LM End	1.81	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.925429 °	37.925429 °	
				-121.325323 °	-121.325323 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:17847						
DS_ID:20609						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Pipe appears abandoned and if so should be done so properly.						
FIELD_STRUCT_DESC: 14-inch pipe through levee 20.0 feet below crown, 2 pumps and gate valves discharge into surge tank in pump house on the waterward slope. Concrete distribution box removed from the waterward slope. Abandoned 36-inch diameter concrete standpipe on LS toe next to service pole. Originally included in the 1964 O&M manual.						
FS Date: 8/20/2013						

Photo 3 of 3 : UCIP\_SP\_2017\_17847\_29960.jpg



Pipes at connection to concrete surge box on WS inside pumphouse.

LM Start	1.81	Rating **	M	Issue No.	945
LM End	1.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.925431 °	37.925431 °
				-121.325310 °	-121.325310 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21865 DS_ID:24033 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipes appear abandoned and should be removed from levee. FIELD_STRUCT_DESC: *ABANDONED* One 1-inch and two 3/4-inch PVC conduits through the levee 6-inches below the crown. FS Date: 8/20/2013					

Photo 1 of 2 : UCIP\_SP\_2017\_21865\_37121.jpg



Pipes visible on WS shoulder directly in front of pumphouse.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.81	Rating **	M	Issue No.	945 (cont)
LM End	1.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.925431 °	37.925431 °
				-121.325310 °	-121.325310 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21865 DS_ID:24033 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pipes appear abandoned and should be removed from levee. FIELD_STRUCT_DESC: *ABANDONED* One 1-inch and two 3/4-inch PVC conduits through the levee 6-inches below the crown. FS Date: 8/20/2013					

Photo 2 of 2 : UCIP\_SP\_2017\_21865\_37120.jpg



Pipes visible on LS slope.

LM Start	1.90	Rating **	U	Issue No.	78
LM End	1.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.924364 °	37.923805 °
				-121.324473 °	-121.324238 °
DWR ID	DWR_RD0524_01_s_2012_78				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_78\_20170316\_00126.jpg



Looking southwest at landscaping on landside slope. (Spring 2012)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.94	Rating **	M	Issue No.	159
LM End	1.95	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.923703 °	37.923645 °
				-121.324238 °	-121.324233 °
DWR ID	DWR_RD0524_01_s_2017_159				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Minor sloughing and cracking.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_159\_20170407\_00384.jpg



Looking at minor cracking and sloughing on waterward slope.

LM Start	1.94	Rating **	U	Issue No.	176
LM End	1.94	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.923688 °	37.923688 °
				-121.324223 °	-121.324223 °
DWR ID	DWR_RD0524_01_s_2015_176				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Landward caving (3 x 18" x 5 ) caused by broken sprinklers.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_176\_20170316\_00208.jpg



Looking west at erosion within landscaping on landward shoulder and slope.

LM Start	<b>1.94</b>	Rating **	U	Issue No.	<b>176 (cont)</b>
LM End	<b>1.94</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_176\_20170316\_00209.jpg



Looking east at erosion within landscaping on landward slope and shoulder.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.99	Rating **	M	Issue No.	4
LM End	1.99	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.923068 °	37.923068 °
				-121.323990 °	-121.323990 °
DWR ID	DWR_RD0524_01_f_2012_4				
Comment Code					
ST : Stairway					
Inspector Comment					
Landowner installed rubber tires for a stairway on landside slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_4\_20170316\_00010.jpg



Looking west at rubber tires being used as stairs on landside slope.

LM Start	1.99	Rating **	M	Issue No.	946
LM End	1.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.923022 °	37.923022 °
				-121.323953 °	-121.323953 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21872 DS_ID:24035 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 3-inch PVC domestic non-potable water line through the levee at unknowd depth below the crown. Pump on concrete pad at WS toe. FS Date: 8/20/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_21872\_37128.jpg



Pump on concrete pad at WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.99	Rating **	M	Issue No.	946 (cont)
LM End	1.99	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.923022 °	37.923022 °
				-121.323953 °	-121.323953 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:21872  
DS\_ID:24035  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: No permit identified for this crossing.  
FIELD\_STRUCT\_DESC: 3-inch PVC domestic non-potable water line through the levee at unknown depth below the crown. Pump on concrete pad at WS toe.  
FS Date: 8/20/2013

LM Start	<b>1.99</b>	Rating **	M	Issue No.	<b>946 (cont)</b>
LM End	<b>1.99</b>	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP\_SP\_2017\_21872\_37127.jpg



PVC pipe visible on LS toe.

Photo 3 of 3 : UCIP\_SP\_2017\_21872\_37126.jpg



Pump and pipe visible on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

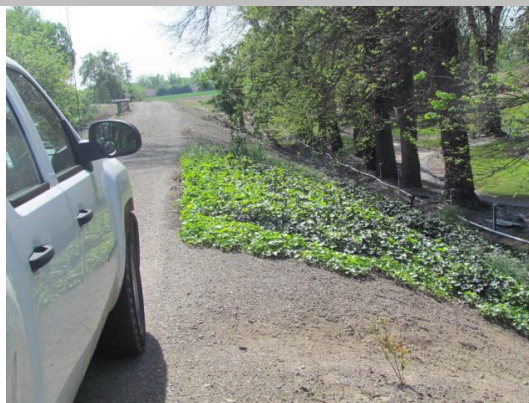
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	1.99	Rating **	M	Issue No.	105
LM End	1.99	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.923032 °	37.923032 °
				-121.323933 °	-121.323933 °
DWR ID	DWR_RD0524_01_s_2012_105				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	2.00	Rating **	U	Issue No.	106
LM End	2.00	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.922923 °	37.922923 °
				-121.323837 °	-121.323837 °
DWR ID	DWR_RD0524_01_s_2012_106				
Comment Code					
V6 : Landscaping					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_106\_20170316\_00164.jpg



Looking southwest at ground cover on landward slope.

LM Start	2.01	Rating **	M	Issue No.	182
LM End	2.04	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.922837 °	37.922514 °
				-121.323785 °	-121.323504 °
DWR ID	DWR_RD0524_01_s_2014_182				
Comment Code					
DT : Ditch					
Inspector Comment					
Old irrigation ditch at the landward toe should be removed.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_182\_20170316\_00218.jpg



Looking northwest at an old irrigation ditch at landward toe.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.01	Rating **	M	Issue No.	182 (cont)	
LM End	2.04	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			37.922837 °	37.922514 °	
				-121.323785 °	-121.323504 °	
DWR ID	DWR_RD0524_01_s_2014_182					
Comment Code						
DT : Ditch						
Inspector Comment						
Old irrigation ditch at the landward toe should be removed.						

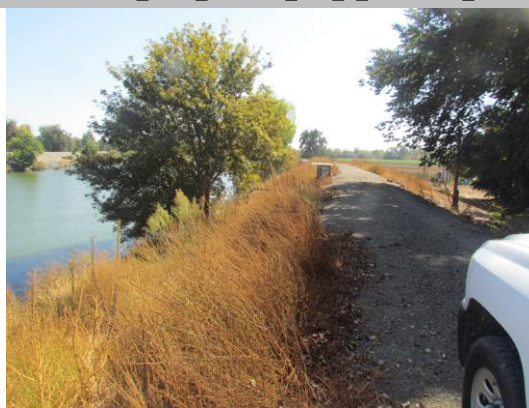
Photo 2 of 2 : SP\_2017\_RD0524\_107\_182\_20170316\_00219.jpg



Looking southwest at an old irrigation ditch at landward toe.

LM Start	2.02	Rating **	U	Issue No.	6
LM End	2.07	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.922625 °	37.922062 °
				-121.323640 °	-121.323117 °
DWR ID	DWR_RD0524_01_f_2012_6				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on waterward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_6\_20170316\_00014.jpg



Looking southeast at dense veg on waterward slope.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	<b>2.03</b>	Rating **	M	Issue No.	<b>947</b>
LM End	<b>2.03</b>	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.922535 °	37.922535 °	
			-121.323568 °	-121.323568 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:21883  
DS\_ID:24036  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Pipe abandoned and should be done so properly.  
Holes visible throughout exposed pipe.  
FIELD\_STRUCT\_DESC: 5-inch wrapped steel irrigation pipe through the levee 6-feet below the crown. No pump or other appurtenances found.  
FS Date: 8/20/2013

LM Start	<b>2.03</b>	Rating **	M	Issue No.	<b>947 (cont)</b>
LM End	<b>2.03</b>	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP\_SP\_2017\_21883\_37134.jpg



Pipe visible on WS slope.

Photo 2 of 2 : UCIP\_SP\_2017\_21883\_37133.jpg



Holes in pipe along exposed side of pipe at WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.07	Rating **	M	Issue No.	948
LM End	2.07	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.922080 °	37.922080 °
				-121.323118 °	-121.323118 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21895 DS_ID:24038 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee at an unknown depth. Vent, meter, butterfly valve, and pump at pumphouse on WS slope. FS Date: 8/20/2013					

LM Start	<b>2.07</b>	Rating **	M	Issue No.	<b>948 (cont)</b>
LM End	<b>2.07</b>	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP\_SP\_2017\_21895\_37142.jpg



Steel irrigation line visible in front of tank to right of powerpole off LS toe.

Photo 2 of 3 : UCIP\_SP\_2017\_21895\_37141.jpg



Irrigation line visible on side of pumphouse.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.07	Rating **	M	Issue No.	948 (cont)
LM End	2.07	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.922080 °	37.922080 °
				-121.323118 °	-121.323118 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21895 DS_ID:24038 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 6-inch steel irrigation pipe through the levee at an unknown depth. Vent, meter, butterfly valve, and pump at pumphouse on WS slope. FS Date: 8/20/2013					

Photo 3 of 3 : UCIP\_SP\_2017\_21895\_37140.jpg



Pump and butterfly valve inside pumphouse on WS berm.

LM Start	2.07	Rating **	M	Issue No.	949
LM End	2.07	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.922064 °	37.922064 °
				-121.323084 °	-121.323084 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:17944 DS_ID:20612 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Soil excavated from cover over pipe on WS next to concrete riser. May indicate a leak or other problem. FIELD_STRUCT_DESC: 20-inch steel pipe through the levee 15.0 feet below the crown. Pump in pump house on the waterward slope. Slide gate in 4-foot diameter concrete standpipe on WS slope with secondary concrete standpipe. PVC standpipe visible 350-feet off LS toe. Originally included in the 1964 O&M manual. FS Date: 8/20/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_17944\_30045.jpg



Slide gate in concrete riser with secondary concrete riser in foreground. Pumphouse in background.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.07	Rating **	M	Issue No.	949 (cont)	
LM End	2.07	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.922064 °		37.922064 °
				-121.323084 °		-121.323084 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:17944 DS_ID:20612 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Soil excavated from cover over pipe on WS next to concrete riser. May indicate a leak or other problem. FIELD_STRUCT_DESC: 20-inch steel pipe through the levee 15.0 feet below the crown. Pump in pump house on the waterward slope. Slide gate in 4-foot diameter concrete standpipe on WS slope with secondary concrete standpipe. PVC standpipe visible 350-feet off LS toe. Originally included in the 1964 O&M manual. FS Date: 8/20/2013						

LM Start	<b>2.07</b>	Rating **	M	Issue No.	<b>949 (cont)</b>
LM End	<b>2.07</b>	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP\_SP\_2017\_17944\_30044.jpg



Pump and pipe inside pumphouse.

Photo 3 of 3 : UCIP\_SP\_2017\_17944\_30043.jpg



Hole over pipe next to 4-foot diameter concrete standpipe on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.19	Rating **	U	Issue No.	91
LM End	2.19	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.920992 °	37.920992 °
				-121.321370 °	-121.321370 °
DWR ID	DWR_RD0524_01_s_2017_91				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
07/22/2014: The erosion has increased in size.					
08/13/2013: No significant change observed. Slightly more vegetation was visible.					
08/07/2012: The site was first reported in 2012 spring levee inspection report. [2016 Site ID:RD0524U01RM42.79]					

LM Start	<b>2.19</b>	Rating **	U	Issue No.	<b>91 (cont)</b>
LM End	<b>2.19</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 2 : SP\_2017\_RD0524\_107\_91\_20170316\_00147.jpg



Close view of the pocket erosion.

Photo 2 of 2 : SP\_2017\_RD0524\_107\_91\_20170316\_00148.jpg



Front view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.24	Rating **	U	Issue No.	99
LM End	2.27	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.920650 °	37.920650 °
				-121.320370 °	-121.320370 °
DWR ID	DWR_RD0524_01_s_2017_99				
Comment Code					
Inspector Comment					
0/03/20167: Site repaired					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: An irrigation pipe is on site. [2016 Site					
ID:RD0524U01RM42.84]					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_99\_20170316\_00158.jpg



Close view of the erosion.

LM Start	<b>2.24</b>	Rating **	U	Issue No.	<b>99 (cont)</b>
LM End	<b>2.27</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP\_2017\_RD0524\_107\_99\_20170316\_00159.jpg



Close view of the erosion.

LM Start	<b>2.24</b>	Rating **	U	Issue No.	<b>99 (cont)</b>
LM End	<b>2.27</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_99\_20170316\_00160.jpg



Close view of the erosion. Note the irrigation pipe next to the erosion.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.25	Rating **	U	Issue No.	31
LM End	2.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.920493 °	37.920493 °
				-121.320565 °	-121.320565 °
DWR ID	DWR_RD0524_01_s_2012_31				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope instability probably cause by leak in irrigation pipe. Pipe should be inspected internally.					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_31\_20170316\_00058.jpg



Looking south at siphon on waterward slope.

LM Start	<b>2.25</b>	Rating **	U	Issue No.	<b>31 (cont)</b>
LM End	<b>2.25</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP\_2017\_RD0524\_107\_31\_20170316\_00059.jpg



Looking east at siphon on waterward slope.

LM Start	<b>2.25</b>	Rating **	U	Issue No.	<b>31 (cont)</b>
LM End	<b>2.25</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_31\_20170316\_00060.jpg



Looking south slope damage on waterward shoulder and slope.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.27	Rating **	U	Issue No.	32
LM End	2.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.920372 °	37.920167 °
				-121.320230 °	-121.319890 °
DWR ID	DWR_RD0524_01_s_2012_32				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Dense elderberry bushes on landward slope and toe.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_32\_20170316\_00061.jpg



Looking northwest at dense veg on landward slope and toe fall 2015.

LM Start	<b>2.27</b>	Rating **	U	Issue No.	<b>32 (cont)</b>
LM End	<b>2.29</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_32\_20170316\_00062.jpg



Looking south at dense veg on landside slope and toe.

LM Start	2.27	Rating **	U	Issue No.	203
LM End	2.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.920327 °	37.920327 °
				-121.320175 °	-121.320175 °
DWR ID	DWR_RD0524_01_f_2016_203				
Comment Code					
PR : Prunings					
Inspector Comment					
Large pruning pile on landward slope and toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_203\_20170407\_00385.jpg



Looking west at pruning pile on waterward slope.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.32	Rating **	M	Issue No.	34
LM End	2.33	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.919885 °	37.919703 °
				-121.319713 °	-121.319702 °
DWR ID	DWR_RD0524_01_s_2012_34				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by walking traffic and using bank as a fishing platform.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_34\_20170316\_00065.jpg



Looking northeast at damage to the slope possibly caused by human activity.

LM Start	2.33	Rating **	U	Issue No.	107
LM End	2.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.919742 °	37.919742 °
				-121.319623 °	-121.319623 °
DWR ID	DWR_RD0524_01_s_2012_107				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_107\_20170316\_00165.jpg



Looking northwest at untrimmed trees at landward toe.

LM Start	2.38	Rating **	U	Issue No.	204
LM End	2.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.919067 °	37.918713 °
				-121.319935 °	-121.320595 °
DWR ID	DWR_RD0524_01_f_2016_204				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Dense vegetation on landward slope and waterward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_204\_20170316\_00236.jpg



Looking south at dense veg on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.38	Rating **	M	Issue No.	184
LM End	2.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.919036 °	37.919036 °
				-121.319969 °	-121.319969 °
DWR ID	DWR_RD0524_01_s_2014_184				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	2.41	Rating **	U	Issue No.	35
LM End	2.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918785 °	37.918515 °
				-121.320417 °	-121.321110 °
DWR ID	DWR_RD0524_01_s_2012_35				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_35\_20170316\_00066.jpg



Looking southwest at dense vegetation on landward toe.

LM Start	2.44	Rating **	M	Issue No.	36
LM End	2.47	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.918628 °	37.918438 °
				-121.320817 °	-121.321452 °
DWR ID	DWR_RD0524_01_s_2012_36				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_36\_20170316\_00067.jpg



Looking east at erosion on waterside slope.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

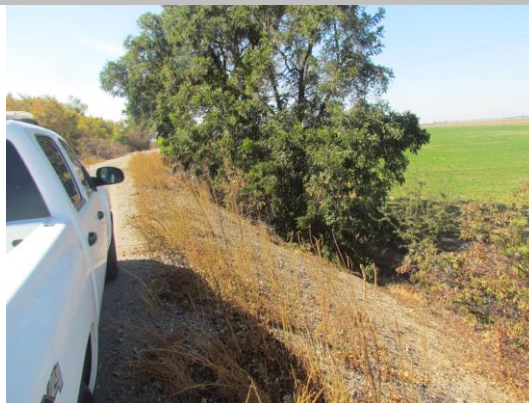
**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.45	Rating **	U	Issue No.	80
LM End	2.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.918480 °	37.918480 °
				-121.321114 °	-121.321114 °
DWR ID	DWR_RD0524_01_s_2012_80				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed tree on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_80\_20170316\_00130.jpg



Looking south at untrimmed tree on landward slope.

LM Start	2.47	Rating **	M	Issue No.	160
LM End	2.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.918403 °	37.918383 °
				-121.321442 °	-121.321497 °
DWR ID	DWR_RD0524_01_s_2017_160				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Runoff erosion on landside slope					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_160\_20170407\_00386.jpg



Looking east at erosion caused by rain runoff on waterward slope.

LM Start	2.49	Rating **	U	Issue No.	37
LM End	2.50	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918345 °	37.918302 °
				-121.321765 °	-121.321923 °
DWR ID	DWR_RD0524_01_s_2012_37				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 4 : SP\_2017\_RD0524\_107\_37\_20170316\_00068.jpg



Looking south at elderberry on landside slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.49	Rating **	U	Issue No.	37 (cont)	
LM End	2.50	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.918345 °		37.918302 °
				-121.321765 °		-121.321923 °
DWR ID	DWR_RD0524_01_s_2012_37					
Comment Code						
V4 : Elderberries are blocking visibility and flood fight capability.						
Inspector Comment						

Photo 2 of 4 : SP\_2017\_RD0524\_107\_37\_20170316\_00069.jpg



Looking southwest at dense vegetation on landside toe.

LM Start	<b>2.49</b>	Rating **	U	Issue No.	<b>37 (cont)</b>
LM End	<b>2.50</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : SP\_2017\_RD0524\_107\_37\_20170316\_00070.jpg



Looking north at elderberry and trees on landside slope.

LM Start	<b>2.49</b>	Rating **	U	Issue No.	<b>37 (cont)</b>
LM End	<b>2.50</b>	Issue Type +	Ma	Location *	LS

Photo 4 of 4 : SP\_2017\_RD0524\_107\_37\_20170316\_00071.jpg



Looking southwest at trees along levee landside toe.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.50	Rating **	U	Issue No.	38
LM End	2.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918287 °	37.918287 °
				-121.321980 °	-121.321980 °
DWR ID	DWR_RD0524_01_s_2012_38				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_38\_20170316\_00072.jpg



Looking north at elderberry on waterside slope.

LM Start	<b>2.50</b>	Rating **	U	Issue No.	<b>38 (cont)</b>
LM End	<b>2.50</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_38\_20170316\_00073.jpg



Looking south at elderberry on waterside slope.

LM Start	2.53	Rating **	U	Issue No.	40
LM End	2.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.918047 °	37.917498 °
				-121.322415 °	-121.322797 °
DWR ID	DWR_RD0524_01_s_2012_40				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_40\_20170316\_00076.jpg



Looking southwest at dense veg on landward slope.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.54	Rating **	U	Issue No.	82
LM End	2.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.917978 °	37.917978 °
				-121.322483 °	-121.322483 °
DWR ID	DWR_RD0524_01_s_2012_82				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
Landward slope damage from animal digging into levee.					

LM Start	<b>2.54</b>	Rating **	U	Issue No.	<b>82 (cont)</b>
LM End	<b>2.54</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 2 : SP\_2017\_RD0524\_107\_82\_20170316\_00135.jpg



Looking southwest at large holes on landward slope. (Fall 2016)

Photo 2 of 2 : SP\_2017\_RD0524\_107\_82\_20170316\_00136.jpg



Looking southwest at damaged landward slope. (Spring 2016)

LM Start	2.56	Rating **	U	Issue No.	42
LM End	2.56	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.917673 °	37.917673 °
				-121.322718 °	-121.322718 °
DWR ID	DWR_RD0524_01_s_2012_42				
Comment Code					
BU : Building					
Inspector Comment					
Animal pens on landward slope and toe.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_42\_20170316\_00078.jpg



Looking west at animal pens on landside toe. (Fall 2012)

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.56	Rating **	U	Issue No.	42 (cont)	
LM End	2.56	Issue Type +	En	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.917673 °	37.917673 °	
				-121.322718 °	-121.322718 °	
DWR ID	DWR_RD0524_01_s_2012_42					
Comment Code						
BU : Building						
Inspector Comment						
Animal pens on landward slope and toe.						

Photo 2 of 2 : SP\_2017\_RD0524\_107\_42\_20170316\_00079.jpg



Looking at animal pens on landside slope and toe.

LM Start	2.57	Rating **	M	Issue No.	12
LM End	2.57	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.917538 °	37.917538 °
				-121.322757 °	-121.322757 °
DWR ID	DWR_RD0524_01_f_2012_12				
Comment Code					
PO : Pole					
Inspector Comment					
Old fence poles on landside shoulder and slope should be removed. 4/3/17: Old post removed, a new larger post replacing the old post					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_12\_20170316\_00025.jpg



Looking northwest at fence poles on landside shoulder.

LM Start	2.57	Rating **	U	Issue No.	218
LM End	2.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.917492 °	37.917492 °
				-121.322795 °	-121.322795 °
DWR ID	DWR_RD0524_01_f_2016_218				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Large trench on waterward shoulder and slope. Trench is 45 x 15 x 5.					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_218\_20170316\_00255.jpg



Looking east at trench on waterward shoulder.

\* Location  
LS : Land Side N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable N : Not Inspected/Rated  
M : Minimally Acceptable C : Corrected  
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.57	Rating **	U	Issue No.	218 (cont)	
LM End	2.57	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Erosion / Bank Caving			37.917492 °		37.917492 °
				-121.322795 °		-121.322795 °
DWR ID	DWR_RD0524_01_f_2016_218					
Comment Code						
E2 : Schedule repair of erosion site prior to the next inspection.						
Inspector Comment						
Large trench on waterward shoulder and slope. Trench is 45 x 15 x 5.						

Photo 2 of 3 : SP\_2017\_RD0524\_107\_218\_20170316\_00256.jpg



Looking northwest at trench on waterward shoulder.

LM Start	<b>2.57</b>	Rating **	U	Issue No.	<b>218 (cont)</b>
LM End	<b>2.57</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_218\_20170316\_00257.jpg



Looking south at trench on waterward shoulder.

LM Start	2.58	Rating **	C	Issue No.	917
LM End	2.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.917475 °	37.917475 °
				-121.322808 °	-121.322808 °
DWR ID	DWR_RD0524_01_s_2012_917				
Comment Code					
A2 : Repair the levee slope damaged by livestock and prevent large animal access.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.58	Rating **	M	Issue No.	7
LM End	2.58	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.917431 °	37.917431 °
				-121.322780 °	-121.322780 °
DWR ID	DWR_RD0524_01_f_2012_7				
Comment Code					
RA : Ramp					
Inspector Comment					
Ramp due to land owner traffic.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_7\_20170316\_00015.jpg



Looking southeast at unauthorized ramp on waterside slope.

LM Start	2.58	Rating **	M	Issue No.	950
LM End	2.58	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.917365 °	37.917365 °
				-121.322779 °	-121.322779 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:21935 DS_ID:24040 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to determine type of abandonment for pipe at this location. FIELD_STRUCT_DESC: *ABANDONED* Pump pad on LS shoulder with 4'X9' brick distribution box on WS slope. No pipe visible. 4'X9' brick distribution box on LS toe. FS Date: 8/20/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_21935\_37162.jpg



Foundation for pump with distribution box on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	<b>2.58</b>	Rating **	M	Issue No.	<b>950 (cont)</b>
LM End	<b>2.58</b>	Issue Type +	En	Location *	WS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.917365 °	37.917365 °	
			-121.322779 °	-121.322779 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:21935  
DS\_ID:24040  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: Need to determine type of abandonment for pipe at this location.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* Pump pad on LS shoulder with 4'X9' brick distribution box on WS slope. No pipe visible. 4'X9' brick distribution box on LS toe.  
FS Date: 8/20/2013

LM Start	<b>2.58</b>	Rating **	M	Issue No.	<b>950 (cont)</b>
LM End	<b>2.58</b>	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP\_SP\_2017\_21935\_37161.jpg



Distribution box on LS toe.

Photo 3 of 3 : UCIP\_SP\_2017\_21935\_37160.jpg



Distribution box on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.59	Rating **	U	Issue No.	9
LM End	2.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.917228 °	37.916858 °
				-121.322730 °	-121.322168 °
DWR ID	DWR_RD0524_01_s_2012_9				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_9\_20170316\_00016.jpg



Looking southwest at dense veg at landward toe.

LM Start	2.60	Rating **	U	Issue No.	185
LM End	2.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.917152 °	37.916807 °
				-121.322582 °	-121.322069 °
DWR ID	DWR_RD0524_01_s_2014_185				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_185\_20170316\_00020.jpg



Looking northwest at untrimmed trees on landward slope and toe.

LM Start	2.64	Rating **	U	Issue No.	43
LM End	2.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.916780 °	37.916780 °
				-121.322095 °	-121.322095 °
DWR ID	DWR_RD0524_01_s_2012_43				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Dense elderberry on landward shoulder, slope, and toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_43\_20170316\_00080.jpg



Looking southeast at dense veg on landward slope and toe fall 2015.

\* Location  
LS : Land Side N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable N : Not Inspected/Rated  
M : Minimally Acceptable C : Corrected  
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.65	Rating **	U	Issue No.	918
LM End	2.66	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.916718 °	37.916502 °
				-121.322020 °	-121.321980 °
DWR ID	DWR_RD0524_01_s_2012_918				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landward slope and toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_918\_20170316\_00277.jpg



Looking south at untrimmed trees on landward slope.

LM Start	2.65	Rating **	U	Issue No.	920
LM End	2.65	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.916698 °	37.916698 °
				-121.322007 °	-121.322007 °
DWR ID	DWR_RD0524_01_s_2012_920				
Comment Code					
RA : Ramp					
Inspector Comment					
Hole dug at base of ramp on river side.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_920\_20170407\_00387.jpg



Looking east at hole at the end of ramp on waterward slope.

LM Start	<b>2.65</b>	Rating **	U	Issue No.	<b>920 (cont)</b>
LM End	<b>2.65</b>	Issue Type +	En	Location *	WS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_920\_20170316\_00278.jpg



Looking southeast at unauthorized ramp on waterside slope. (Spring 2016)

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.67	Rating **	M	Issue No.	44
LM End	2.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.916418 °	37.915142 °
				-121.321963 °	-121.323018 °
DWR ID	DWR_RD0524_01_s_2012_44				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
Trim over hanging trees at least 12 feet above ground level.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_44\_20170316\_00081.jpg



Looking north at dense trees overhanging levee crown.

LM Start	2.70	Rating **	U	Issue No.	264
LM End	2.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.915968 °	37.915557 °
				-121.322275 °	-121.322607 °
DWR ID	DWR_RD0524_01_s_2012_264				
Comment Code					
T2 : Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Untrimmed trees along landward slope and toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_264\_20170316\_00266.jpg



Looking south at untrimmed trees on landward slope.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.73	Rating **	M	Issue No.	951
LM End	2.73	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.915698 °	37.915698 °
				-121.322501 °	-121.322501 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18085 DS_ID:20616 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for crossing.  Unknown use. Pipe should be removed. FIELD_STRUCT_DESC: 3-inch galvanized iron pipe through the levee 0.3 feet below the crown.  Valve on the landward shoulder. FS Date: 8/20/2013 3:28:19 PM					

LM Start	<b>2.73</b>	Rating **	M	Issue No.	<b>951 (cont)</b>
LM End	<b>2.73</b>	Issue Type +	En	Location *	LS

Photo 1 of 2 : UCIP\_SP\_2017\_18085\_30191.jpg



Pipe and vent visible on LS slope.

Photo 2 of 2 : UCIP\_SP\_2017\_18085\_30190.jpg



Pipe visible on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.74	Rating **	M	Issue No.	41
LM End	2.74	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.915556 °	37.915556 °
				-121.322616 °	-121.322616 °
DWR ID	DWR_RD0524_01_s_2016_41				
Comment Code					
EQ : Equipment					
Inspector Comment					
Landowner installed satellite dish on waterward shoulder.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_41\_20170316\_00077.jpg



Looking north at satellite dish on waterward shoulder.

LM Start	2.77	Rating **	U	Issue No.	219
LM End	2.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.915195 °	37.915052 °
				-121.322930 °	-121.323430 °
DWR ID	DWR_RD0524_01_f_2016_219				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several large rodent holes on landward slope.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_219\_20170316\_00258.jpg



Looking at typical rodent hole on waterward slope.

LM Start	<b>2.77</b>	Rating **	U	Issue No.	<b>219 (cont)</b>
LM End	<b>2.80</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_219\_20170316\_00259.jpg



Looking south at several rodent holes on landward slope.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.80	Rating **	U	Issue No.	48
LM End	2.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.915022 °	37.915022 °
				-121.323443 °	-121.323443 °
DWR ID	DWR_RD0524_01_s_2012_48				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_48\_20170316\_00091.jpg



Looking south at dense elderberry on landside slope.(Spring 2012)

LM Start	<b>2.80</b>	Rating **	U	Issue No.	<b>48 (cont)</b>
LM End	<b>2.80</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_48\_20170316\_00092.jpg



Looking south at elderberry on landside slope.(Spring 2011)

LM Start	2.82	Rating **	A/W	Issue No.	220
LM End	2.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.914893 °	37.914258 °
				-121.323770 °	-121.324328 °
DWR ID	DWR_RD0524_01_f_2016_220				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Dense vegetation on waterward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_220\_20170316\_00260.jpg



Looking at dense veg on waterward slope.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.86	Rating **	U	Issue No.	49
LM End	2.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.914427 °	37.914427 °
				-121.324198 °	-121.324198 °
DWR ID	DWR_RD0524_01_s_2012_49				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_49\_20170316\_00093.jpg



Looking northwest at elderberry on landside slope.

LM Start	2.87	Rating **	U	Issue No.	209
LM End	2.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.914257 °	37.914257 °
				-121.324317 °	-121.324317 °
DWR ID	DWR_RD0524_01_s_2016_209				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed walnut tree on landward slope and toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_209\_20170316\_000242.jpg



Looking northwest at untrimmed tree at landward toe.

LM Start	2.90	Rating **	U	Issue No.	50
LM End	2.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.913767 °	37.913503 °
				-121.324427 °	-121.324488 °
DWR ID	DWR_RD0524_01_s_2012_50				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_50\_20170316\_00094.jpg



Looking southwest at prunings on landside slope.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.91	Rating **	U	Issue No.	161
LM End	2.91	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.913733 °	37.913733 °
				-121.324398 °	-121.324398 °
DWR ID	DWR_RD0524_01_s_2017_161				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_161\_20170407\_00388.jpg



Looking east at large tree stump on waterward shoulder.

LM Start	2.93	Rating **	U	Issue No.	51
LM End	2.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.913415 °	37.913415 °
				-121.324503 °	-121.324503 °
DWR ID	DWR_RD0524_01_s_2012_51				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landward slope and toe.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_51\_20170316\_00095.jpg



Looking south at dense trees on landward slope fall 2015

LM Start	<b>2.93</b>	Rating **	U	Issue No.	<b>51 (cont)</b>
LM End	<b>2.93</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_51\_20170316\_00096.jpg



Looking south at dense trees on landward slope spring 2015

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.94	Rating **	M	Issue No.	210
LM End	2.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.913198 °	37.913198 °
				-121.324490 °	-121.324490 °
DWR ID	DWR_RD0524_01_s_2016_210				
Comment Code					
GA : Garbage					
Inspector Comment					
Old containers at landward toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_210\_20170316\_00243.jpg



Looking west at abandoned containers at landward toe.

LM Start	2.95	Rating **	M	Issue No.	952
LM End	2.95	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.913101 °	37.913101 °
				-121.324500 °	-121.324500 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18089 DS_ID:20617 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Review crossing with inspector as records indicate that this should be an 8-inch pipe through levee 3.0 feet below crown, pump on landward side. Siphon breaker on the waterward slope. Originally included in the 1964 O&M manual. FIELD_STRUCT_DESC: 16-inch wrapped steel storm discharge pipe through the levee 1.5-feet below the crown. Pump on steel pile structure at drainage canal off LS toe. FS Date: 8/20/2013					

Photo 1 of 2 : UCIP\_SP\_2017\_18089\_30198.jpg



PVC wrapped pipe and siphon breaker visible on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.95	Rating **	M	Issue No.	952 (cont)	
LM End	2.95	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.913101 °		37.913101 °
				-121.324500 °		-121.324500 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:18089						
DS_ID:20617						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Indicator Found						
UCIP Comments: Review crossing with inspector as records indicate that this should be an 8-inch pipe through levee 3.0 feet below crown, pump on landward side. Siphon breaker on the waterward slope. Originally included in the 1964 O&M manual.						
FIELD_STRUCT_DESC: 16-inch wrapped steel storm discharge pipe through the levee 1.5-feet below the crown. Pump on steel pile structure at drainage canal off LS toe.						
FS Date: 8/20/2013						

Photo 2 of 2 : UCIP\_SP\_2017\_18089\_30197.jpg



Pipe, pump, power pole, and meter visible off LS toe.

LM Start	2.96	Rating **	U	Issue No.	126
LM End	2.96	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.913010 °	37.913010 °
				-121.324490 °	-121.324490 °
DWR ID	DWR_RD0524_01_s_2017_126				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site was first reported in 2012 spring levee inspection report. [2016 Site ID:RD0524U01RM43.52]					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_126\_20170316\_00184.jpg



Upstream view of the erosion.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	2.96	Rating **	U	Issue No.	126 (cont)
LM End	2.96	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.913010 °	37.913010 °
				-121.324490 °	-121.324490 °
DWR ID	DWR_RD0524_01_s_2017_126				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The site was first reported in 2012 spring levee inspection report. [2016 Site ID:RD0524U01RM43.52]					

Photo 2 of 2 : SP\_2017\_RD0524\_107\_126\_20170316\_00185.jpg



Close view of the erosion. Note the vegetation at the site.

LM Start	3.02	Rating **	M	Issue No.	924
LM End	3.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.912163 °	37.912163 °
				-121.324702 °	-121.324702 °
DWR ID	DWR_RD0524_01_s_2012_924				
Comment Code					
A2 : Repair the levee slope damaged by livestock and prevent large animal access.					
Inspector Comment					

No Photos

LM Start	3.07	Rating **	M	Issue No.	925
LM End	3.27	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.911382 °	37.908602 °
				-121.324928 °	-121.325395 °
DWR ID	DWR_RD0524_01_s_2012_925				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on levee slopes.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_925\_20170316\_00279.jpg



Looking at typical view of rodent hole with this section fall 2015.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.07	Rating **	M	Issue No.	925 (cont)	
LM End	3.27	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Animal Control			37.911382 °		37.908602 °
				-121.324928 °		-121.325395 °
DWR ID	DWR_RD0524_01_s_2012_925					
Comment Code						
A1 : Exterminate rodents and backfill and compact or grout burrows.						
Inspector Comment						
Several rodent holes on levee slopes.						

Photo 2 of 2 : SP\_2017\_RD0524\_107\_925\_20170316\_00280.jpg



Looking at typical rodent holes on landward slope along this reach.

LM Start	3.10	Rating **	U	Issue No.	169
LM End	3.10	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.911070 °	37.911070 °
				-121.325090 °	-121.325090 °
DWR ID	DWR_RD0524_01_f_2015_169				
Comment Code					
GA : Garbage					
Inspector Comment					
Rubber tire stockpile at landward toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_169\_20170316\_00196.jpg



Looking west at rubber tires at landward toe.

LM Start	3.11	Rating **	M	Issue No.	212
LM End	3.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.910876 °	37.908558 °
				-121.325181 °	-121.325394 °
DWR ID	DWR_RD0524_01_s_2016_212				
Comment Code					
DT : Ditch					
Inspector Comment					
Shallow drainage ditch at landward toe.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_212\_20170316\_00245.jpg



Looking northwest at southend of ditch at landward toe.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.11	Rating **	M	Issue No.	212 (cont)	
LM End	3.27	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			37.910876 °	37.908558 °	
				-121.325181 °	-121.325394 °	
DWR ID	DWR_RD0524_01_s_2016_212					
Comment Code						
DT : Ditch						
Inspector Comment						
Shallow drainage ditch at landward toe.						

Photo 2 of 2 : SP\_2017\_RD0524\_107\_212\_20170316\_00246.jpg



Looking southwest at northend of ditch at landward toe.

LM Start	3.18	Rating **	U	Issue No.	211
LM End	3.18	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.909945 °	37.909945 °
				-121.325543 °	-121.325543 °
DWR ID	DWR_RD0524_01_s_2016_211				
Comment Code					
RA : Ramp					
Inspector Comment					
Unauthorized ramp on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_211\_20170316\_00244.jpg



Looking northwest at unauthorized ramp on landward slope.

LM Start	3.27	Rating **	M	Issue No.	186
LM End	3.27	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.908551 °	37.908551 °
				-121.325381 °	-121.325381 °
DWR ID	DWR_RD0524_01_s_2014_186				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.30	Rating **	U	Issue No.	129
LM End	3.32	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.908090 °	37.908090 °
				-121.325090 °	-121.325090 °
DWR ID	DWR_RD0524_01_s_2017_129				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: The levee toe seems to have been protected by river rocks and vegetation on site. [2016 Site ID:RD0524U01RM43.86]					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_129\_20170316\_00186.jpg



Close view of the erosion. Note the river rocks and vegetation at the levee toe.

LM Start	3.30	Rating **	U	Issue No.	926
LM End	3.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.908158 °	37.907080 °
				-121.325418 °	-121.325366 °
DWR ID	DWR_RD0524_01_s_2012_926				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

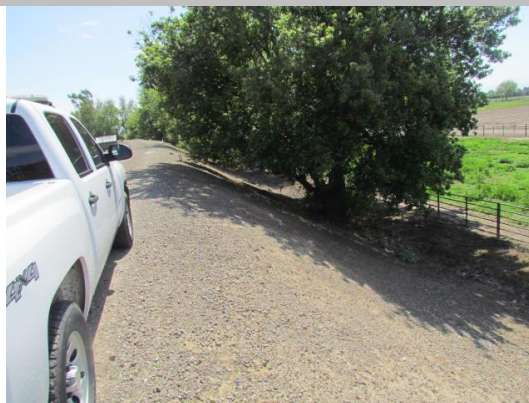
Photo 1 of 2 : SP\_2017\_RD0524\_107\_926\_20170316\_00281.jpg



Looking southwest at dense veg on landward slope.

LM Start	<b>3.30</b>	Rating **	U	Issue No.	<b>926 (cont)</b>
LM End	<b>3.38</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_926\_20170316\_00282.jpg



Looking at untrimmed trees on landward slope and toe.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.32	Rating **	M	Issue No.	162
LM End	3.32	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.907885 °	37.907885 °
				-121.325428 °	-121.325428 °
DWR ID	DWR_RD0524_01_s_2017_162				
Comment Code					
TR : Tree or limb					
Inspector Comment					
downed tree limbs on landside slope					

No Photos

LM Start	3.35	Rating **	U	Issue No.	953
LM End	3.35	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.907504 °	37.907504 °
				-121.325420 °	-121.325420 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51320 DS_ID:20618 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 11/16/2016 same as previous inspection erosion is still present on LS toe and slope. Owner will need to coordinate with CVFPB to address erosion issue on LS toe. (O. Magana - DWR UCIP)08/20/2013 Extensive erosion on LS toe at distribution box due to failure of box/pipe connection. Erosion on LS slope do to recently repaired leak at gate valve. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 14-inch steel irrigation pipe (O&M reference list 12-inch pipe) through the levee, 7 feet below the crown. Pump house is located on the waterside (WS) slope. Gate valve is located on the landside (LS) slope. A 4-foot by 4-foot bridck distribution box built in 1918 is located on the LS toe. This site was use to manufacture brick back in 1918 and some of the appurtenances that remain are still in use (distribution box and ditch). [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin River O&M Unit 7, April 1964, (HLM 3.38). conversation with owner 2016]. FS Date: 11/16/2016					

Photo 1 of 3 : UCIP\_SP\_2017\_51320\_30206.jpg



Pipe and pumphouse on WS slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.35	Rating **	U	Issue No.	953 (cont)
LM End	3.35	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.907504 °	37.907504 °
				-121.325420 °	-121.325420 °
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51320  
DS\_ID:20618  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/16/2016 same as previous inspection erosion is still present on LS toe and slope. Owner will need to coordinate with CVFPB to address erosion issue on LS toe. (O. Magana - DWR UCIP)08/20/2013 Extensive erosion on LS toe at distribution box due to failure of box/pipe connection. Erosion on LS slope do to recently repaired leak at gate valve. (W. Wylie - DWR UCIP)  
FIELD\_STRUCT\_DESC: 14-inch steel irrigation pipe (O&M reference list 12-inch pipe) through the levee, 7 feet below the crown. Pump house is located on the waterside (WS) slope. Gate valve is located on the landside (LS) slope. A 4-foot by 4-foot brick distribution box built in 1918 is located on the LS toe. This site was use to manufacture brick back in 1918 and some of the appurtenances that remain are still in use (distribution box and ditch). [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin River O&M Unit 7, April 1964, (HLM 3.38). conversation with owner 2016].  
FS Date: 11/16/2016

LM Start	<b>3.35</b>	Rating **	U	Issue No.	<b>953 (cont)</b>
LM End	<b>3.35</b>	Issue Type +	En	Location *	WS

Photo 2 of 3 : UCIP\_SP\_2017\_51320\_30205.jpg



Pipe, gatevalve, and erosion on LS slope.

Photo 3 of 3 : UCIP\_SP\_2017\_51320\_30204.jpg



Extensive erosion around distribution box at LS toe.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.36	Rating **	M	Issue No.	53
LM End	3.42	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.907283 °	37.906503 °
				-121.325432 °	-121.325002 °
DWR ID	DWR_RD0524_01_s_2012_53				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.45	Rating **	U	Issue No.	54
LM End	3.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.906227 °	37.906227 °
				-121.324683 °	-121.324683 °
DWR ID	DWR_RD0524_01_s_2012_54				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					
Dense untrimmed trees on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_54\_20170316\_00098.jpg



Looking northwest at dense vegetation on landside slope.

LM Start	3.48	Rating **	M	Issue No.	177
LM End	3.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.905994 °	37.905994 °
				-121.324194 °	-121.324194 °
DWR ID	DWR_RD0524_01_f_2014_177				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree on landward toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_177\_20170316\_00210.jpg



Looking at dead tree limb at landward toe fall 2015.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.51	Rating **	U	Issue No.	57
LM End	3.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.905638 °	37.904430 °
				-121.323892 °	-121.324570 °
DWR ID	DWR_RD0524_01_s_2012_57				
Comment Code					
T3 : Trim and thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_57\_20170316\_00102.jpg



Looking south at dense trees on landward slope.

LM Start	3.51	Rating **	M	Issue No.	265
LM End	3.51	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.905552 °	37.905552 °
				-121.323847 °	-121.323847 °
DWR ID	DWR_RD0524_01_s_2012_265				
Comment Code					
RA : Ramp					
Inspector Comment					
Unauthorized ramp on landside slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_265\_20170316\_00267.jpg



Looking southeast at unauthorized ramp on landside slope and toe.

LM Start	3.61	Rating **	M	Issue No.	124
LM End	3.61	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.904375 °	37.904375 °
				-121.324615 °	-121.324615 °
DWR ID	DWR_RD0524_01_f_2012_124				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landowner planted cactus on landside toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_124\_20170316\_00183.jpg



Looking west at cactus on landside toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.62	Rating **	M	Issue No.	163
LM End	3.62	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.904348 °	37.904348 °
				-121.324683 °	-121.324683 °
DWR ID	DWR_RD0524_01_s_2017_163				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	3.64	Rating **	M	Issue No.	58
LM End	3.64	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.904113 °	37.904113 °
				-121.325080 °	-121.325080 °
DWR ID	DWR_RD0524_01_s_2012_58				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landowner cut steps into waterside slope.					
4/3/17: Steps washed away slope damage remains.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_58\_20170407\_00389.jpg



Looking south at step cut into waterward slope. (Spring 2017)

LM Start	<b>3.64</b>	Rating **	M	Issue No.	<b>58 (cont)</b>
LM End	<b>3.64</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_58\_20170316\_00103.jpg



Looking southeast steps cut into waterside slope.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.65	Rating **	U	Issue No.	190
LM End	3.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.904070 °	37.904070 °
				-121.325118 °	-121.325118 °
DWR ID	DWR_RD0524_01_f_2015_190				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Large century plant at landward toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_190\_20170316\_00222.jpg



Looking southwest at century plant at landward toe fall 2015.

LM Start	3.66	Rating **	U	Issue No.	164
LM End	3.66	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.903983 °	37.903983 °
				-121.325198 °	-121.325198 °
DWR ID	DWR_RD0524_01_s_2017_164				
Comment Code					
BU : Building					
Inspector Comment					
abandoned deck on landside shoulder.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_164\_20170407\_00390.jpg



Looking south at abandoned deck on landward shoulder and slope.

LM Start	3.67	Rating **	U	Issue No.	192
LM End	3.67	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.903782 °	37.903782 °
				-121.325363 °	-121.325363 °
DWR ID	DWR_RD0524_01_s_2015_192				
Comment Code					
PR : Prunings					
Inspector Comment					
Large pruning piles at landward toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_192\_20170316\_00223.jpg



Looking west at pruning pile at landward toe.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.69	Rating **	U	Issue No.	194
LM End	3.78	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.903553 °	37.902505 °
				-121.325468 °	-121.326425 °
DWR ID	DWR_RD0524_01_s_2015_194				
Comment Code					
DT : Ditch					
Inspector Comment					
Shallow Irrigation ditch at landward toe.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_194\_20170316\_00224.jpg



Looking south at irrigation ditch at landward toe.

LM Start	<b>3.69</b>	Rating **	U	Issue No.	<b>194 (cont)</b>
LM End	<b>3.78</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_194\_20170316\_00225.jpg



Looking east at south end of irrigation ditch at landward toe.

LM Start	3.75	Rating **	U	Issue No.	52
LM End	3.75	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.902828 °	37.902828 °
				-121.326170 °	-121.326170 °
DWR ID	DWR_RD0524_01_s_2016_52				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_52\_20170316\_00097.jpg



Looking south at untrimmed tree on landward slope and toe.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.77	Rating **	U	Issue No.	927
LM End	3.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.902645 °	37.902645 °
				-121.326340 °	-121.326340 °
DWR ID	DWR_RD0524_01_s_2012_927				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed almond tree on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_927\_20170316\_00283.jpg



Looking southwest at untrimmed tree at landward toe.

LM Start	3.78	Rating **	U	Issue No.	59
LM End	3.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.902417 °	37.902417 °
				-121.326482 °	-121.326482 °
DWR ID	DWR_RD0524_01_s_2012_59				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_59\_20170316\_00104.jpg



Looking south at dense veg on landward slope and toe.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.79	Rating **	M	Issue No.	954
LM End	3.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.902371 °	37.902371 °
				-121.326440 °	-121.326440 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22725					
DS_ID:24044					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No permit identified for this crossing.					
FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee 0-					
feet below the crown. Pipe integrated into steel cattelguard style					
crossing. Slant pump and butterfly valve at concrete foundation on WS					
slope. Filter plant, vents, and butterfly valves on LS toe.					
FS Date: 8/20/2013					

LM Start	<b>3.79</b>	Rating **	M	Issue No.	<b>954 (cont)</b>
LM End	<b>3.79</b>	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP\_SP\_2017\_22725\_38445.jpg



Pump and butterfly valve on concrete pad on WS shoulder.

Photo 2 of 3 : UCIP\_SP\_2017\_22725\_38444.jpg



Vent on PVC pipe at WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.79	Rating **	M	Issue No.	954 (cont)
LM End	3.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.902371 °	37.902371 °
				-121.326440 °	-121.326440 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22725 DS_ID:24044 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 8-inch steel irrigation pipe through the levee 0-feet below the crown. Pipe integrated into steel cattelguard style crossing. Slant pump and butterfly valve at concrete foundation on WS slope. Filter plant, vents, and butterfly valves on LS toe. FS Date: 8/20/2013					

Photo 3 of 3 : UCIP\_SP\_2017\_22725\_38443.jpg



Steel, integrated cattelguard style pipe crossing at crown elevation.

LM Start	3.79	Rating **	M	Issue No.	955
LM End	3.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.902361 °	37.902361 °
				-121.326443 °	-121.326443 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18307 DS_ID:20620 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. Evidence of severe internal corrosion in concrete distribution box at LS toe. FIELD_STRUCT_DESC: 12-inch concrete encased pipe through the levee 10.5 feet below the crown, pump and gate valve in pump house on the waterward slope. 6'X6' Concrete distribution box on the landward toe. Two concrete cutoff walls. Service pole at the landward toe. Originally included in the 1964 O&M manual. FS Date: 8/20/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_18307\_30528.jpg



Slant pump visible at concrete foundation on WS slope. Pumphouse removed.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.79	Rating **	M	Issue No.	955 (cont)
LM End	3.79	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.902361 °	37.902361 °
				-121.326443 °	-121.326443 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18307 DS_ID:20620 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. Evidence of severe internal corrosion in concrete distribution box at LS toe. FIELD_STRUCT_DESC: 12-inch concrete encased pipe through the levee 10.5 feet below the crown, pump and gate valve in pump house on the waterward slope. 6'X6' Concrete distribution box on the landward toe. Two concrete cutoff walls. Service pole at the landward toe. Originally included in the 1964 O&M manual. FS Date: 8/20/2013					

LM Start	<b>3.79</b>	Rating **	M	Issue No.	<b>955 (cont)</b>
LM End	<b>3.79</b>	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP\_SP\_2017\_18307\_30527.jpg



Slant pump and pipe on WS slope.

Photo 3 of 3 : UCIP\_SP\_2017\_18307\_30526.jpg



6'X6' concrete distribution box and power pole on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.87	Rating **	U	Issue No.	95
LM End	3.97	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.901147 °	37.899750 °
				-121.326453 °	-121.326598 °
DWR ID	DWR_RD0524_01_f_2013_95				
Comment Code					
EQ : Equipment					
Inspector Comment					
Landowner is storing equipment on landward shoulder and landward toe.					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_95\_20170316\_00154.jpg



Looking south at farm equipment stored on landward shoulder and toe.

LM Start	<b>3.87</b>	Rating **	U	Issue No.	<b>95 (cont)</b>
LM End	<b>3.97</b>	Issue Type +	En	Location *	LS

Photo 2 of 3 : SP\_2017\_RD0524\_107\_95\_20170316\_00155.jpg



Looking north at farm equipment stored on landward shoulder.

LM Start	<b>3.87</b>	Rating **	U	Issue No.	<b>95 (cont)</b>
LM End	<b>3.97</b>	Issue Type +	En	Location *	LS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_95\_20170316\_00156.jpg



Looking west at farm equipment stored at landward toe.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.88	Rating **	U	Issue No.	94
LM End	3.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.900952 °	37.900952 °
				-121.326443 °	-121.326443 °
DWR ID	DWR_RD0524_01_s_2012_94				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove cactus from waterward slope.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_94\_20170316\_00152.jpg



Looking southeast at cactus on waterward slope fall 2015

LM Start	<b>3.88</b>	Rating **	U	Issue No.	<b>94 (cont)</b>
LM End	<b>3.88</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_94\_20170316\_00153.jpg



Looking southeast at cactus on waterside slope. Fall 2013

LM Start	3.89	Rating **	U	Issue No.	83
LM End	3.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.900854 °	37.900854 °
				-121.326438 °	-121.326438 °
DWR ID	DWR_RD0524_01_s_2012_83				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed tree on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_83\_20170316\_00137.jpg



Looking south at untrimmed trees on landward slope and toe.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	3.90	Rating **	M	Issue No.	956
LM End	3.90	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.900778 °	37.900778 °
				-121.326420 °	-121.326420 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:41464					
DS_ID:20621					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Appears to be abandoned as signage has been removed.					
FIELD_STRUCT_DESC: 2.5-inch submarine telephone conduit through levee and across channel 2.0 feet below crown. Sign posts remain on both sides of river on the waterward slope.					
FS Date: 8/20/2013					



Sign posts with sign removed on WS slope.

LM Start	<b>3.90</b>	Rating **	M	Issue No.	<b>956 (cont)</b>
LM End	<b>3.90</b>	Issue Type +	En	Location *	LS



Sign posts visible on opposite river bank in same condition.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.02	Rating **	U	Issue No.	195
LM End	4.02	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.899093 °	37.899093 °
				-121.326933 °	-121.326933 °
DWR ID	DWR_RD0524_01_s_2015_195				
Comment Code					
PR : Prunings					
Inspector Comment					
Pruning pile blocking view of landward slope.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_195\_20170316\_00226.jpg



Looking southwes at large pruning pile at landward toe. (Fall 2016)

LM Start	<b>4.02</b>	Rating **	U	Issue No.	<b>195 (cont)</b>
LM End	<b>4.02</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_195\_20170316\_00227.jpg



Looking at pruning pile at landward toe. (Spring 2016)

LM Start	4.02	Rating **	U	Issue No.	101
LM End	4.02	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.899027 °	37.899027 °
				-121.326982 °	-121.326982 °
DWR ID	DWR_RD0524_01_s_2012_101				
Comment Code					
RA : Ramp					
Inspector Comment					
Unauthorized ramp. Ramp does not meet Title 23 standard.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_101\_20170316\_00161.jpg



Looking west at unauthorized ramp on landside slope.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.03	Rating **	M	Issue No.	61
LM End	4.03	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.898925 °	37.898925 °
				-121.327015 °	-121.327015 °
DWR ID	DWR_RD0524_01_s_2012_61				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_61\_20170316\_00108.jpg



Looking east at untrimmed tree at landward toe.

LM Start	4.04	Rating **	M	Issue No.	957
LM End	4.04	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.898853 °	37.898853 °
				-121.327049 °	-121.327049 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18314 DS_ID:20623 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 8-inch concrete encased pipe through the levee 9.5-feet below crown, pump and gate valve in pump house on the waterward slope. Slide gate in 42-inch corrugated metal pipe riser on the waterward slope. Brick standpipe at the toe of the landward slope. 1.5-inch galvanized iron electrical conduit through the levee 3-feet below the crown at the same location. Originally included in the 1964 O&M manual. FS Date: 8/20/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_18314\_30559.jpg



Electrical conduit visible on WS slope at pumphouse.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.04	Rating **	M	Issue No.	957 (cont)	
LM End	4.04	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.898853 °	37.898853 °	
				-121.327049 °	-121.327049 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:18314 DS_ID:20623 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. FIELD_STRUCT_DESC: 8-inch concrete encased pipe through the levee 9.5-feet below crown, pump and gate valve in pump house on the waterward slope. Slide gate in 42-inch corrugated metal pipe riser on the waterward slope. Brick standpipe at the toe of the landward slope. 1.5-inch galvanized iron electrical conduit through the levee 3-feet below the crown at the same location. Originally included in the 1964 O&M manual. FS Date: 8/20/2013						

LM Start	<b>4.04</b>	Rating **	M	Issue No.	<b>957 (cont)</b>
LM End	<b>4.04</b>	Issue Type +	En	Location *	LS



Pumphouse and gate valve in CMP riser on WS slope.



Pumphouse and gate valve in CMP riser on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.10	Rating **	U	Issue No.	108
LM End	4.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.898035 °	°
				-121.327447 °	-121.327806 °
DWR ID	DWR_RD0524_01_s_2012_108				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope depression is greater than 1" and longer than 200'.					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_108\_20170316\_00166.jpg



Looking north at caving slope on landside of levee.

LM Start	<b>4.10</b>	Rating **	U	Issue No.	<b>108 (cont)</b>
LM End	<b>4.15</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP\_2017\_RD0524\_107\_108\_20170316\_00167.jpg



Looking south at damage slope on landside of levee.

LM Start	<b>4.10</b>	Rating **	U	Issue No.	<b>108 (cont)</b>
LM End	<b>4.15</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_108\_20170316\_00168.jpg



Looking southwest at caving slope on landside of levee. (Spring 2014)

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.16	Rating **	M	Issue No.	213
LM End	4.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.897235 °	37.897235 °
				-121.327865 °	-121.327865 °
DWR ID	DWR_RD0524_01_s_2016_213				
Comment Code					
GA : Garbage					
Inspector Comment					
Old fence post and concrete and brick rubble on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_213\_20170316\_00247.jpg



Looking west at old fence post and concrete rubble on landward slope.

LM Start	4.16	Rating **	M	Issue No.	958
LM End	4.16	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.897118 °	37.897118 °
				-121.327910 °	-121.327910 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18318					
DS_ID:20625					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Small leak on WS slope causing minor erosion on WS slope.					
FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee 4.5 feet below the crown, pumphouse and gate valve on the waterward slope. 36-inch concrete standpipe, power pole, and meter on LS toe. Originally included in the 1964 O&M manual.					
FS Date: 8/23/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_18318\_30589.jpg



Concrete standpipe on LS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.16	Rating **	M	Issue No.	958 (cont)	
LM End	4.16	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.897118 °	37.897118 °	
				-121.327910 °	-121.327910 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:18318						
DS_ID:20625						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Small leak on WS slope causing minor erosion on WS slope.						
FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee 4.5 feet below the crown, pumphouse and gate valve on the waterward slope. 36-inch concrete standpipe, power pole, and meter on LS toe.						
Originally included in the 1964 O&M manual.						
FS Date: 8/23/2013						

Photo 2 of 3 : UCIP\_SP\_2017\_18318\_30588.jpg



Vent or siphon breaker just off LS shoulder.

LM Start	<b>4.16</b>	Rating **	M	Issue No.	<b>958 (cont)</b>
LM End	<b>4.16</b>	Issue Type +	En	Location *	LS

Photo 3 of 3 : UCIP\_SP\_2017\_18318\_30587.jpg



Pumphouse and pipe on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.16	Rating **	M	Issue No.	110
LM End	4.16	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.897103 °	37.897103 °
				-121.327895 °	-121.327895 °
DWR ID	DWR_RD0524_01_s_2012_110				
Comment Code					
RA : Ramp					
Inspector Comment					
Two unauthorized ramps on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_110\_20170316\_00169.jpg



Looking southwest at an unauthorized ramp on landside slope.

LM Start	4.17	Rating **	M	Issue No.	959
LM End	4.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.897074 °	37.897074 °
				-121.327926 °	-121.327926 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22069 DS_ID:24049 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 2.25-inch PVC domestic water service through the levee 5-feet below the crown. Pump and tank on WS slope with a vent on the LS slope. FS Date: 8/23/2013					

Photo 1 of 2 : UCIP\_SP\_2017\_22069\_37660.jpg



Pipe visible on LS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.17	Rating **	M	Issue No.	959 (cont)
LM End	4.17	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.897074 °	37.897074 °
				-121.327926 °	-121.327926 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22069 DS_ID:24049 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 2.25-inch PVC domestic water service through the levee 5-feet below the crown. Pump and tank on WS slope with a vent on the LS slope. FS Date: 8/23/2013					

Photo 2 of 2 : UCIP\_SP\_2017\_22069\_37659.jpg



Pipe, pump, and tank visible on WS slope.

LM Start	4.37	Rating **	M	Issue No.	960
LM End	4.37	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.894453 °	37.894453 °
				-121.329232 °	-121.329232 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18320					
DS_ID:20626					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Small leak in pipe on LS slope and pipe slightly crushed on LS toe.					
FIELD_STRUCT_DESC: 9-inch steel stormdrain pipe through the levee 3.0 feet below the crown, pump in drain ditch on the landward side.					
Siphon breaker on the waterward slope. Originally included in the 1964 O&M manual.					
FS Date: 8/23/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_18320\_30594.jpg



Pipe and siphon breaker on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.37	Rating **	M	Issue No.	960 (cont)	
LM End	4.37	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.894453 °	37.894453 °	
				-121.329232 °	-121.329232 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:18320						
DS_ID:20626						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Small leak in pipe on LS slope and pipe slightly crushed on LS toe.						
FIELD_STRUCT_DESC: 9-inch steel stormdrain pipe through the levee 3.0 feet below the crown, pump in drain ditch on the landward side.						
Siphon breaker on the waterward slope. Originally included in the 1964 O&M manual.						
FS Date: 8/23/2013						

Photo 2 of 3 : UCIP\_SP\_2017\_18320\_30593.jpg



Small leak in pipe on LS slope.

LM Start	<b>4.37</b>	Rating **	M	Issue No.	<b>960 (cont)</b>
LM End	<b>4.37</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : UCIP\_SP\_2017\_18320\_30592.jpg



Pipe partially crushed at LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.38	Rating **	M	Issue No.	111
LM End	4.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.894258 °	37.894258 °
				-121.329247 °	-121.329247 °
DWR ID	DWR_RD0524_01_s_2012_111				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree at landside toe should be removed from levee toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_111\_20170316\_00170.jpg



Looking west at dead tree at landside toe.

LM Start	4.38	Rating **	M	Issue No.	165
LM End	4.38	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.894198 °	37.894198 °
				-121.329272 °	-121.329272 °
DWR ID	DWR_RD0524_01_s_2017_165				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

No Photos

LM Start	4.40	Rating **	U	Issue No.	112
LM End	4.53	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.893928 °	37.892230 °
				-121.329203 °	-121.328187 °
DWR ID	DWR_RD0524_01_s_2012_112				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees along landward slope and toe.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_112\_20170316\_00171.jpg



Looking northeast at untrimmed tree on landward slope and toe fall 2015.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.40	Rating **	U	Issue No.	112 (cont)	
LM End	4.53	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			37.893928 °	37.892230 °	
				-121.329203 °	-121.328187 °	
DWR ID	DWR_RD0524_01_s_2012_112					
Comment Code						
T1 : Trim trees to at least five feet above ground level.						
Inspector Comment						
Untrimmed trees along landward slope and toe.						

Photo 2 of 2 : SP\_2017\_RD0524\_107\_112\_20170316\_00172.jpg



Looking southeast at untrimmed tree at landward toe.

LM Start	4.43	Rating **	U	Issue No.	199
LM End	4.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.893582 °	37.893582 °
				-121.329108 °	-121.329108 °
DWR ID	DWR_RD0524_01_f_2015_199				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove dead tree from landward toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_199\_20170316\_00230.jpg



Looking west at dead tree on landward slope and toe fall 2015.

LM Start	4.52	Rating **	U	Issue No.	102
LM End	4.52	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.892368 °	37.892368 °
				-121.328200 °	-121.328200 °
DWR ID	DWR_RD0524_01_f_2016_102				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree on waterward slope.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_102\_20170316\_00162.jpg



Looking southeast at dead tree on waterside slope fall 2015

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.52	Rating **	U	Issue No.	102 (cont)	
LM End	4.52	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.892368 °		37.892368 °
				-121.328200 °		-121.328200 °
DWR ID	DWR_RD0524_01_f_2016_102					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Dead tree on waterward slope.						

Photo 2 of 2 : SP\_2017\_RD0524\_107\_102\_20170316\_00163.jpg



Looking southeast at dead tree on waterside slope.

LM Start	4.53	Rating **	U	Issue No.	132
LM End	4.54	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.892230 °	37.892230 °
				-121.327930 °	-121.327930 °
DWR ID	DWR_RD0524_01_s_2017_132				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The erosion is located at the inside of a river bend. Site is covered with broken concrete blocks and other debris. [2016 Site ID:RD0524U01RM45.07]					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_132\_20170316\_00187.jpg



Front view of the site. Note the loosely placed concrete blocks at the site.


<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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## Levee Inspection Report By Mile - Spring 2017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

Photo 2 of 2 : SP\_2017\_RD0524\_107\_132\_20170316\_00188.jpg



Upstream view of the erosion.

Photo 1 of 1 : SP\_2017\_RD0524\_107\_66\_20170316\_00110.jpg



Garbage at landward toe next to ramp at LM 4.64

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable	A : Acceptable                      N : Not Inspected/Rated	Ma : Maintenance Deficiency
WS : Water Side	M : Minimally Acceptable        C : Corrected	Ob : Design & System Obsolescence
CR : Crown	U : Unacceptable                    A/W : Acceptable but Monitor & Maintain	En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.61	Rating **	U	Issue No.	63
LM End	4.61	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.891285 °	37.891285 °
				-121.328728 °	-121.328728 °
DWR ID	DWR_RD0524_01_s_2012_63				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_63\_20170316\_00109.jpg



Looking south at dense trees on landside slope.

LM Start	4.63	Rating **	M	Issue No.	113
LM End	4.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.890973 °	37.890973 °
				-121.328970 °	-121.328970 °
DWR ID	DWR_RD0524_01_s_2012_113				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_113\_20170316\_00173.jpg



Looking north at dense trees on landside slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.68	Rating **	M	Issue No.	961
LM End	4.68	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.890313 °	37.890313 °
				-121.329405 °	-121.329405 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18323 DS_ID:20646 EP_NO: 0 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Good candidate for video inspection as brick and mortar deteriorating inside tunnel. FIELD_STRUCT_DESC: 22-inch concrete pipe through the levee 12.0 feet below the crown. Pump on pier at WS toe. 16-inch pipe from pump discharges into a concrete riser inside the pumphouse on the WS shoulder. Brick and mortar channel on LS toe. Originally included in the 1964 O&M manual. FS Date: 8/23/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_18323\_30603.jpg



Brick and mortar channel on LS toe.

LM Start	<b>4.68</b>	Rating **	M	Issue No.	<b>961 (cont)</b>
LM End	<b>4.68</b>	Issue Type +	En	Location *	LS

Photo 2 of 3 : UCIP\_SP\_2017\_18323\_30602.jpg



Pump on pier and slide gate house on WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.68	Rating **	M	Issue No.	961 (cont)	
LM End	4.68	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.890313 °		37.890313 °
				-121.329405 °		-121.329405 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:18323 DS_ID:20646 EP_NO: 0 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Good candidate for video inspection as brick and mortar deteriorating inside tunnel. FIELD_STRUCT_DESC: 22-inch concrete pipe through the levee 12.0 feet below the crown. Pump on pier at WS toe. 16-inch pipe from pump discharges into a concrete riser inside the pumphouse on the WS shoulder. Brick and mortar channel on LS toe. Originally included in the 1964 O&M manual. FS Date: 8/23/2013						

Photo 3 of 3 : UCIP\_SP\_2017\_18323\_30601.jpg



Slide gate inside concrete riser within shed on WS shoulder.

LM Start	4.70	Rating **	U	Issue No.	67
LM End	4.70	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.890108 °	37.890108 °
				-121.329523 °	-121.329523 °
DWR ID	DWR_RD0524_01_s_2012_67				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Fig tree at landside toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_67\_20170316\_00111.jpg



Looking northwest at untrimmed tree on landward slope.

\* Location  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

\*\* Rating  
 A : Acceptable  
 M : Minimally Acceptable  
 U : Unacceptable  
 N : Not Inspected/Rated  
 C : Corrected  
 A/W : Acceptable but Monitor & Maintain

+ Issue Type  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.89	Rating **	M	Issue No.	962
LM End	4.89	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.887694 °	37.887694 °
				-121.331019 °	-121.331019 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22728					
DS_ID:20628					
EP_NO: 3817					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel pipe through the levee 3.0 feet below the crown, pump 120-feet off the LS toe. Siphon breaker in 24-inch CMP on the waterward shoulder (Permit No. 3817)					
Originally included in the 1964 O&M manual.					
FS Date: 8/23/2013					

LM Start	<b>4.89</b>	Rating **	M	Issue No.	<b>962 (cont)</b>
LM End	<b>4.89</b>	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP\_SP\_2017\_22728\_38453.jpg



Siphon breaker in 24-inch CMP riser on WS shoulder.

Photo 2 of 3 : UCIP\_SP\_2017\_22728\_38452.jpg



Pipe visible on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.89	Rating **	M	Issue No.	962 (cont)
LM End	4.89	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.887694 °	37.887694 °
				-121.331019 °	-121.331019 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22728					
DS_ID:20628					
EP_NO: 3817					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: *ABANDONED* 6-inch steel pipe through the levee 3.0 feet below the crown, pump 120-feet off the LS toe. Siphon breaker in 24-inch CMP on the waterward shoulder (Permit No. 3817)					
Originally included in the 1964 O&M manual.					
FS Date: 8/23/2013					

Photo 3 of 3 : UCIP\_SP\_2017\_22728\_38451.jpg



Pump in pumphouse 120-feet off LS toe.

LM Start	4.90	Rating **	U	Issue No.	84
LM End	4.93	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.887655 °	37.887277 °
				-121.331202 °	-121.331609 °
DWR ID	DWR_RD0524_01_s_2012_84				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_84\_20170316\_00138.jpg



Looking west at untrimmed tree on landward slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	4.96	Rating **	U	Issue No.	114
LM End	4.98	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.886907 °	37.886673 °
				-121.331862 °	-121.331965 °
DWR ID	DWR_RD0524_01_s_2012_114				
Comment Code					
V4 : Elderberries are blocking visibility and flood fight capability.					
Inspector Comment					
Dense elderberry on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_114\_20170316\_00174.jpg



Looking southwest at dense elderberry bush on landward slope and toe fall 2015.

LM Start	5.05	Rating **		Issue No.	188
LM End	5.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.885617 °	37.883938 °
				-121.332143 °	-121.332130 °
DWR ID	DWR_RD0524_01_s_2014_188				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landward slope and toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_188\_20170316\_00221.jpg



Looking south at oleander on landward slope.

LM Start	5.07	Rating **	U	Issue No.	68
LM End	5.07	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.885400 °	37.885400 °
				-121.332153 °	-121.332153 °
DWR ID	DWR_RD0524_01_s_2012_68				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_68\_20170316\_00112.jpg



Looking south at overhanging trees.

\* Location  
LS : Land Side N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable N : Not Inspected/Rated  
M : Minimally Acceptable C : Corrected  
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.19	Rating **	M	Issue No.	115
LM End	5.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.883587 °	37.883587 °
				-121.332100 °	-121.332100 °
DWR ID	DWR_RD0524_01_s_2012_115				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Vehicle traffic created a ramp on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_115\_20170316\_00175.jpg



Looking northwest at slope damage on landward slope.

LM Start	5.22	Rating **	M	Issue No.	116
LM End	5.22	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.883170 °	37.883170 °
				-121.332227 °	-121.332227 °
DWR ID	DWR_RD0524_01_s_2012_116				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Dead tree limbs on waterside slope.					

No Photos

LM Start	5.28	Rating **	U	Issue No.	85
LM End	5.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.882377 °	37.881498 °
				-121.332598 °	-121.332800 °
DWR ID	DWR_RD0524_01_s_2012_85				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_85\_20170316\_00139.jpg



Looking south at untrimmed trees on landward slope.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.38	Rating **	U	Issue No.	932
LM End	5.41	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.880945 °	37.880522 °
				-121.332837 °	-121.332918 °
DWR ID	DWR_RD0524_01_s_2012_932				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_932\_20170316\_00285.jpg



Looking south at untrimmed trees on landward slope and toe.

LM Start	5.39	Rating **	M	Issue No.	178
LM End	5.39	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.880806 °	37.880806 °
				-121.332833 °	-121.332833 °
DWR ID	DWR_RD0524_01_f_2014_178				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Downed tree on landward toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_178\_20170316\_00211.jpg



Looking south at downed tree on landward slope.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	<b>5.41</b>	Rating **	U	Issue No.	<b>963</b>
LM End	<b>5.41</b>	Issue Type +	Ma	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP LMA Responsibility		37.880584 °	37.880584 °	
			-121.332901 °	-121.332901 °	
DWR ID					

**Comment Code**

**Inspector Comment**

FS\_ID:51633  
DS\_ID:20630  
EP\_NO: N/A  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 11/16/2016 same as previous inspection hole in pipe is still present on WS near toe. This pipe does not appear to be in use. Need to contact owner to determine status of crossing. If the crossing is abandoned or still in use, owner will need to coordinate with the CVFPB to comply with Title 23 requirements. (O. Magana - DWR UCIP)08/23/2013 flap gate damage and does not work at WS toe. Large hole in pipe at WS toe. Pipe appears abandoned and should be done so properly. (W. Wylie - DWR UCIP)  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 1 of 2: 12-inch steel irrigation pipe (O&M references 10-inch pipe) through the levee, 6 feet below the crown. Pump located on waterside (WS), no pump found in 2013. Flap gate located on the WS end. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin River O&M Unit No. 7, April 1964, (HLM 5.48), Drawing No. 07-04-1490, sheet 1490/4, station 8+01.3]  
FS Date: 11/16/2016

LM Start	<b>5.41</b>	Rating **	U	Issue No.	<b>963 (cont)</b>
LM End	<b>5.41</b>	Issue Type +	Ma	Location *	LS

Photo 1 of 3 : UCIP\_SP\_2017\_51633\_30689.jpg



Pipe visible on WS slope.

Photo 2 of 3 : UCIP\_SP\_2017\_51633\_30688.jpg



Vent on pipe on WS slope. Possible slurry standpipe that has not yet been used.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.41	Rating **	U	Issue No.	963 (cont)	
LM End	5.41	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP LMA Responsibility			37.880584 °		37.880584 °
				-121.332901 °		-121.332901 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:51633 DS_ID:20630 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 11/16/2016 same as previous inspection hole in pipe is still present on WS near toe. This pipe does not appear to be in use. Need to contact owner to determine status of crossing. If the crossing is abandoned or still in use, owner will need to coordinate with the CVFPB to comply with Title 23 requirements. (O. Magana - DWR UCIP)08/23/2013 flap gate damage and does not work at WS toe. Large hole in pipe at WS toe. Pipe appears abandoned and should be done so properly. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: *ABANDONED* 1 of 2: 12-inch steel irrigation pipe (O&M references 10-inch pipe) through the levee, 6 feet below the crown. Pump located on waterside (WS), no pump found in 2013. Flap gate located on the WS end. [Additional Reference(s): DWR Levee Log, 2004. USACE San Joaquin River O&M Unit No. 7, April 1964, (HLM 5.48), Drawing No. 07-04-1490, sheet 1490/4, station 8+01.3] FS Date: 11/16/2016						

Photo 3 of 3 : UCIP\_SP\_2017\_51633\_30687.jpg



Broken flap gate at WS toe.

LM Start	5.42	Rating **	M	Issue No.	964
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.880358 °	37.880358 °
				-121.332972 °	-121.332972 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18348					
DS_ID:20631					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Recent work being done on WS slope. Pipe may still be in use.					
FIELD_STRUCT_DESC: 10-inch steel storm drain pipe through the levee 6.0 feet below the crown. Pump not found on LS. Originally included in the 1964 O&M manual.					
FS Date: 8/23/2013					

Photo 1 of 3 : UCIP\_SP\_2017\_18348\_30706.jpg



10-inch pipe debris on the WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.42	Rating **	M	Issue No.	964 (cont)	
LM End	5.42	Issue Type +	Ma	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP LMA Responsibility			37.880358 °	37.880358 °	
				-121.332972 °	-121.332972 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:18348						
DS_ID:20631						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: Recent work being done on WS slope. Pipe may still be in use.						
FIELD_STRUCT_DESC: 10-inch steel storm drain pipe through the levee 6.0 feet below the crown. Pump not found on LS. Originally included in the 1964 O&M manual.						
FS Date: 8/23/2013						

Photo 2 of 3 : UCIP\_SP\_2017\_18348\_30705.jpg



8-inch pipe sleeved through 10-inch pipe with vent on WS slope.

LM Start	<b>5.42</b>	Rating **	M	Issue No.	<b>964 (cont)</b>
LM End	<b>5.42</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : UCIP\_SP\_2017\_18348\_30704.jpg



No flap gate on end of pipe at WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.42	Rating **	M	Issue No.	118
LM End	5.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.880323 °	37.880323 °
				-121.332968 °	-121.332968 °
DWR ID	DWR_RD0524_01_s_2012_118				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Slope damage caused by human activity.					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_118\_20170316\_00177.jpg



Looking west at slope damage on landside slope.

LM Start	<b>5.42</b>	Rating **	M	Issue No.	<b>118 (cont)</b>
LM End	<b>5.42</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP\_2017\_RD0524\_107\_118\_20170316\_00178.jpg



Looking southeast at damaged slope.

LM Start	<b>5.42</b>	Rating **	M	Issue No.	<b>118 (cont)</b>
LM End	<b>5.42</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_118\_20170316\_00179.jpg



Looking east at slope caving on landside slope.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.43	Rating **	U	Issue No.	134
LM End	5.43	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.880320 °	37.880320 °
				-121.333266 °	-121.333266 °
DWR ID	DWR_RD0524_01_s_2017_134				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed. 06/24/2015: No significant change observed. 06/19/2014: No significant change observed. 08/13/2013: The erosion seems to be getting worse. More material sloughing visible. 08/07/2012: The erosion is underneath an irrigation pipe. The likely cause of the erosion is the pipe leakage. [2016 Site ID:RD0524U01RM45.97]					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_134\_20170316\_00189.jpg



Close view of the erosion and the pipe on the site.

LM Start	<b>5.43</b>	Rating **	U	Issue No.	<b>134 (cont)</b>
LM End	<b>5.43</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_134\_20170316\_00190.jpg



Front view of the site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.44	Rating **	U	Issue No.	73
LM End	5.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.880085 °	37.880085 °
				-121.333045 °	-121.333045 °
DWR ID	DWR_RD0524_01_s_2012_73				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed trees on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_73\_20170316\_00118.jpg



Looking southwest at large untrimmed tree on landward slope.

LM Start	5.45	Rating **	A/W	Issue No.	189
LM End	5.45	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.879998 °	37.879998 °
				-121.333079 °	-121.333079 °
DWR ID	DWR_RD0524_01_s_2014_189				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings on landward shoulder should be removed.					

No Photos

LM Start	5.53	Rating **	M	Issue No.	135
LM End	5.53	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.878920 °	37.878920 °
				-121.332670 °	-121.332670 °
DWR ID	DWR_RD0524_01_s_2017_135				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
6/19/2014: No significant change observed.					
08/13/2013: Larger trees are at the levee shoulder, and an irrigation pump station is next to the erosion site. [2016 Site ID:RD0524U01RM46.06]					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_135\_20170316\_00191.jpg



Close view of the site. Note large trees at the levee shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.53	Rating **	M	Issue No.	135 (cont)
LM End	5.53	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.878920 °	37.878920 °
				-121.332670 °	-121.332670 °
DWR ID	DWR_RD0524_01_s_2017_135				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
6/19/2014: No significant change observed.					
08/13/2013: Larger trees are at the levee shoulder, and an irrigation pump station is next to the erosion site. [2016 Site ID:RD0524U01RM46.06]					

Photo 2 of 2 : SP\_2017\_RD0524\_107\_135\_20170316\_00192.jpg



Close view of the erosion.

LM Start	5.56	Rating **	U	Issue No.	166
LM End	5.56	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.878333 °	37.878333 °
				-121.332875 °	-121.332875 °
DWR ID	DWR_RD0524_01_s_2017_166				
Comment Code					
AT : Agricultural tilling					
Inspector Comment					
Damaged landward toe appears to be caused by farming activity.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_166\_20170407\_00391.jpg



Looking northeast at cut into landward toe.

LM Start	<b>5.56</b>	Rating **	U	Issue No.	<b>166 (cont)</b>
LM End	<b>5.56</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_166\_20170407\_00392.jpg



Looking at north at damage to landward toe.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.58	Rating **	M	Issue No.	167
LM End	5.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.878115 °	37.878115 °
				-121.332763 °	-121.332763 °
DWR ID	DWR_RD0524_01_s_2017_167				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope damage caused by vehicle traffic.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_167\_20170407\_00393.jpg



Looking west at slope damage caused by vehicle traffic on landward slope.

LM Start	5.58	Rating **	U	Issue No.	214
LM End	5.58	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.878083 °	37.878083 °
				-121.332717 °	-121.332717 °
DWR ID	DWR_RD0524_01_s_2016_214				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Tall weeds, grasses and trees blocking view of landward toe.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_214\_20170316\_00248.jpg



Looking west at dense veg at landward toe.

LM Start	<b>5.58</b>	Rating **	U	Issue No.	<b>214 (cont)</b>
LM End	<b>5.58</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_214\_20170316\_00249.jpg



<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.63	Rating **	M	Issue No.	168
LM End	5.63	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.877527 °	37.877527 °
				-121.332385 °	-121.332385 °
DWR ID	DWR_RD0524_01_s_2017_168				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope damage on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_168\_20170407\_00394.jpg



Looking northwest at slope damage caused by vehicle traffic on landward slope.

LM Start	5.64	Rating **	U	Issue No.	215
LM End	5.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.877378 °	37.877378 °
				-121.332343 °	-121.332343 °
DWR ID	DWR_RD0524_01_s_2016_215				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Levee slope damage is due vehicle traffic and foot traffic. Vehicle traffic created a ramp on landward slope.					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_215\_20170316\_00250.jpg



Looking north at damage slope on landward slope.

LM Start	<b>5.64</b>	Rating **	U	Issue No.	<b>215 (cont)</b>
LM End	<b>5.64</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP\_2017\_RD0524\_107\_215\_20170316\_00251.jpg



Looking north at slope damage (ramp) on landward slope.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.64	Rating **	U	Issue No.	215 (cont)	
LM End	5.64	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.877378 °		37.877378 °
				-121.332343 °		-121.332343 °
DWR ID	DWR_RD0524_01_s_2016_215					
Comment Code						
S1 : Repair slope instability.						
Inspector Comment						
Levee slope damage is due vehicle traffic and foot traffic. Vehicle traffic created a ramp on landward slope.						

Photo 3 of 3 : SP\_2017\_RD0524\_107\_215\_20170316\_00252.jpg



Looking west at damage slope on landward slope.

LM Start	5.64	Rating **	U	Issue No.	69
LM End	5.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.877298 °	37.875073 °
				-121.332343 °	-121.333168 °
DWR ID	DWR_RD0524_01_s_2012_69				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					
District has grouted rodent holes. But rodents have re-appeared.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_69\_20170316\_00113.jpg



Looking south at rodent holes on landward slope.

LM Start	<b>5.64</b>	Rating **	U	Issue No.	<b>69 (cont)</b>
LM End	<b>5.80</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_69\_20170316\_00114.jpg



* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.64	Rating **	U	Issue No.	117
LM End	5.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.877272 °	37.877272 °
				-121.332400 °	-121.332400 °
DWR ID	DWR_RD0524_01_f_2013_117				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_117\_20170316\_00176.jpg



Looking northwest at untrimmed tree on landward slope.

LM Start	5.70	Rating **	U	Issue No.	175
LM End	5.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.876417 °	37.876417 °
				-121.332505 °	-121.332505 °
DWR ID	DWR_RD0524_01_s_2017_175				
Comment Code					
PR : Prunings					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_175\_20170407\_00395.jpg



Looking south at large pruning pile at landward toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.74	Rating **	M	Issue No.	965
LM End	5.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.876001 °	37.876001 °
				-121.332725 °	-121.332725 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18364 DS_ID:20649 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned and should be done so properly. FIELD_STRUCT_DESC: 2.25-inch steel conduit for a 1-inch plastic electrical conduit through the levee 0.25-feet below the crown. Lines exposed on both slopes. FS Date: 8/23/2013					

Photo 1 of 2 : UCIP\_SP\_2017\_18364\_30761.jpg



Steel conduit and electrical conduit visible on the LS shoulder.

LM Start	<b>5.74</b>	Rating **	M	Issue No.	<b>965 (cont)</b>
LM End	<b>5.74</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP\_SP\_2017\_18364\_30760.jpg



Steel conduit and electrical conduit visible on the WS shoulder.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.74	Rating **	M	Issue No.	966
LM End	5.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.876001 °	37.876001 °
				-121.332725 °	-121.332725 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:40793 DS_ID:20635 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Appears abandoned and if so should be done so properly. No permit identified for this crossing. FIELD_STRUCT_DESC: *ABANDONED* 1-inch steel waterline through the levee 1.0-foot below the crown. Pipe visible only on LS shoulder. FS Date: 8/23/2013					

Photo 1 of 1 : UCIP\_SP\_2017\_40793\_30781.jpg



Steel waterline visible on LS shoulder.

LM Start	5.77	Rating **	U	Issue No.	181
LM End	5.77	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.875545 °	37.875545 °
				-121.332952 °	-121.332952 °
DWR ID	DWR_RD0524_01_s_2017_181				
Comment Code					
BU : Building					
Inspector Comment					
Animal kennel at landside toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_181\_20170407\_00396.jpg



Looking west at animal pen at landward toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.77	Rating **	M	Issue No.	197
LM End	5.79	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.875545 °	37.875310 °
				-121.332952 °	-121.333065 °
DWR ID	DWR_RD0524_01_s_2015_197				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
Several rodent holes on landward slope and levee crown.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_197\_20170316\_00228.jpg



Looking north at typical view of rodent holes on landward slope.

LM Start	<b>5.77</b>	Rating **	M	Issue No.	<b>197 (cont)</b>
LM End	<b>5.79</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_197\_20170316\_00229.jpg



Looking southwest at typical view of rodent hole at landward shoulder.

LM Start	5.77	Rating **	A/W	Issue No.	196
LM End	5.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.875510 °	37.875510 °
				-121.332953 °	-121.332953 °
DWR ID	DWR_RD0524_01_s_2015_196				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed tree on landward slope and toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.79	Rating **	U	Issue No.	267
LM End	5.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.875328 °	37.875328 °
				-121.333050 °	-121.333050 °
DWR ID	DWR_RD0524_01_s_2012_267				
Comment Code					
PR : Prunings					
Inspector Comment					
Prunings at landside toe should be burned or removed.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_267\_20170316\_00268.jpg



Looking west at prunings at landward toe.

LM Start	5.79	Rating **	U	Issue No.	216
LM End	5.79	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.875343 °	37.875343 °
				-121.333097 °	-121.333097 °
DWR ID	DWR_RD0524_01_s_2016_216				
Comment Code					
EQ : Equipment					
Inspector Comment					
Farmer storing irrigation pipes at landward toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_216\_20170316\_00253.jpg



Looking west at irrigation pipes stored at landward toe.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



## Levee Inspection Report By Mile - Spring 2017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

Photo 1 of 2 : UCIP\_SP\_2017\_18369\_30785.jpg



09/23/2019 11:46

Concrete standpipe over pipe on WS shoulder.

A photograph of a utility site. In the foreground, there is a dirt and gravel area. A yellow pipe lies on the ground to the right. A power pole stands in the center-right. To the left, there is a green field and a fence. In the background, more power poles are visible under a clear blue sky. A timestamp '09/23/2013 11:55' is printed in the bottom right corner of the image.

* Location	** Rating	+ Issue Type
LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.81	Rating **	U	Issue No.	183
LM End	5.81	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.874973 °	37.874973 °
				-121.333227 °	-121.333227 °
DWR ID	DWR_RD0524_01_s_2017_183				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Bank caving on waterside around pipe structure.					

LM Start	<b>5.81</b>	Rating **	U	Issue No.	<b>183 (cont)</b>
LM End	<b>5.81</b>	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP\_2017\_RD0524\_107\_183\_20170407\_00398.jpg



Looking west at erosion around pipe and on waterward slope.

Photo 2 of 3 : SP\_2017\_RD0524\_107\_183\_20170407\_00397.jpg



Looking south at erosion around pipe and on waterward slope.

LM Start	<b>5.81</b>	Rating **	U	Issue No.	<b>183 (cont)</b>
LM End	<b>5.81</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_183\_20170407\_00399.jpg



Looking east at erosion on waterward slope.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.82	Rating **	M	Issue No.	968
LM End	5.82	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.874829 °	37.874829 °
				-121.333265 °	-121.333265 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18705 DS_ID:20656 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Need to verify gasline exists and if so improve signage. FIELD_STRUCT_DESC: Gasline marker sign on WS shoulder. FS Date: 8/23/2013					

Photo 1 of 1 : UCIP\_SP\_2017\_18705\_31249.jpg



Gasline marker on WS shoulder.

LM Start	5.86	Rating **	U	Issue No.	139
LM End	5.86	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.874370 °	37.874370 °
				-121.332850 °	-121.332850 °
DWR ID	DWR_RD0524_01_s_2017_139				
Comment Code					
Inspector Comment					
07/25/2016: No significant change observed.					
06/24/2015: No significant change observed.					
06/19/2014: No significant change observed.					
08/13/2013: No significant change observed.					
08/07/2012: The erosion is near a water-intake structure. Pipe leakage likely caused the erosion. [2016 Site ID:RD0524U01RM46.39]					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_139\_20170316\_00194.jpg



Close view of the erosion and the pipe on the site.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.86	Rating **	U	Issue No.	139 (cont)	
LM End	5.86	Issue Type +	Ma	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR Erosion Survey			37.874370 °		37.874370 °
				-121.332850 °		-121.332850 °
DWR ID	DWR_RD0524_01_s_2017_139					
Comment Code						
Inspector Comment						
07/25/2016: No significant change observed.						
06/24/2015: No significant change observed.						
06/19/2014: No significant change observed.						
08/13/2013: No significant change observed.						
08/07/2012: The erosion is near a water-intake structure. Pipe leakage likely caused the erosion. [2016 Site ID:RD0524U01RM46.39]						

Photo 2 of 2 : SP\_2017\_RD0524\_107\_139\_20170316\_00195.jpg



Upstream view of the erosion and vegetation at the site.

LM Start	5.86	Rating **	M	Issue No.	75
LM End	5.88	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.874240 °	37.874002 °
				-121.333187 °	-121.333027 °
DWR ID	DWR_RD0524_01_s_2012_75				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					
District has grouted rodent holes, but other rodent holes have appeared. Active rodents in area					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_75\_20170316\_00122.jpg



Looking typical view of several rodent holes on landward slope and toe.

LM Start	<b>5.86</b>	Rating **	M	Issue No.	<b>75 (cont)</b>
LM End	<b>5.88</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_75\_20170316\_00123.jpg



Looking southwest at typical rodent holes on waterward slope.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.86	Rating **	U	Issue No.	74
LM End	5.87	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.874240 °	37.874165 °
				-121.333185 °	-121.333155 °
DWR ID	DWR_RD0524_01_s_2012_74				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion on landward slope around intake pipe.					

Photo 1 of 3 : SP\_2017\_RD0524\_107\_74\_20170316\_00119.jpg



Looking southeast at erosion around pipe.

LM Start	<b>5.86</b>	Rating **	U	Issue No.	<b>74 (cont)</b>
LM End	<b>5.87</b>	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP\_2017\_RD0524\_107\_74\_20170316\_00120.jpg



Looking west at erosion around intake pipe on landward slope.

LM Start	<b>5.86</b>	Rating **	U	Issue No.	<b>74 (cont)</b>
LM End	<b>5.87</b>	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP\_2017\_RD0524\_107\_74\_20170316\_00121.jpg



Erosion at waterward toe and around irrigation pipe at LM 5.92

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable  
M : Minimally Acceptable  
U : Unacceptable  
N : Not Inspected/Rated  
C : Corrected  
A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.87	Rating **	M	Issue No.	969
LM End	5.87	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.874194 °	37.874194 °
				-121.333182 °	-121.333182 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18379 DS_ID:20638 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy erosion around pipe upstream of standpipe on LS slope. Verify pipe is not leaking and repair erosion on LS slope. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee 10.0 feet below the crown. Slant pump on pier at WS toe. 10-inch steel standpipe on LS slope. 42-inch concrete standpipe on LS slope. Filter plant, and power pole on LS toe. 1.5-inch galvanized iron electrical conduit at same location. Originally included in the 1964 O&M manual. FS Date: 8/23/2013					

LM Start	<b>5.87</b>	Rating **	M	Issue No.	<b>969 (cont)</b>
LM End	<b>5.87</b>	Issue Type +	En	Location *	WS

Photo 1 of 3 : UCIP\_SP\_2017\_18379\_30829.jpg



Butterfly valves and standpipes on LS slope along with electrical conduit.

Photo 2 of 3 : UCIP\_SP\_2017\_18379\_30828.jpg



Slant pump on WS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.87	Rating **	M	Issue No.	969 (cont)
LM End	5.87	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.874194 °	37.874194 °
				-121.333182 °	-121.333182 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18379 DS_ID:20638 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Heavy erosion around pipe upstream of standpipe on LS slope. Verify pipe is not leaking and repair erosion on LS slope. FIELD_STRUCT_DESC: 12-inch steel irrigation pipe through the levee 10.0 feet below the crown. Slant pump on pier at WS toe. 10-inch steel standpipe on LS slope. 42-inch concrete standpipe on LS slope. Filter plant, and power pole on LS toe. 1.5-inch galvanized iron electrical conduit at same location. Originally included in the 1964 O&M manual. FS Date: 8/23/2013					

Photo 3 of 3 : UCIP\_SP\_2017\_18379\_30827.jpg



Filter pump on LS toe.

LM Start	5.87	Rating **	U	Issue No.	217
LM End	5.87	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.874090 °	37.874090 °
				-121.333162 °	-121.333162 °
DWR ID	DWR_RD0524_01_s_2016_217				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					
Untrimmed walnut tree on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_217\_20170316\_00254.jpg



Looking west at walnut tree on landward slope.

\* Location  
 LS : Land Side    N/A : Not Applicable  
 WS : Water Side  
 CR : Crown

\*\* Rating  
 A : Acceptable  
 M : Minimally Acceptable  
 U : Unacceptable  
 N : Not Inspected/Rated  
 C : Corrected  
 A/W : Acceptable but Monitor & Maintain

+ Issue Type  
 Ma : Maintenance Deficiency  
 Ob : Design & System Obsolescence  
 En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.89	Rating **	U	Issue No.	119
LM End	5.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.873893 °	37.873893 °
				-121.332978 °	-121.332978 °
DWR ID	DWR_RD0524_01_s_2012_119				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Landowner is using damaged area as a ramp.					

Photo 1 of 2 : SP\_2017\_RD0524\_107\_119\_20170316\_00180.jpg



Looking west at unauthorized ramp and landside slope damage.

LM Start	<b>5.89</b>	Rating **	U	Issue No.	<b>119 (cont)</b>
LM End	<b>5.89</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP\_2017\_RD0524\_107\_119\_20170316\_00181.jpg



Looking southwest at damaged slope and ramp on landside slope.

LM Start	5.92	Rating **	U	Issue No.	200
LM End	5.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.873623 °	37.873623 °
				-121.332585 °	-121.332585 °
DWR ID	DWR_RD0524_01_f_2015_200				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Oleander bush on landward slope.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_200\_20170316\_00231.jpg



Looking south at oleander on landward slope fall 2015.

**\* Location**  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	5.94	Rating **	M	Issue No.	87
LM End	5.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.873545 °	37.873445 °
				-121.332308 °	-121.332127 °
DWR ID	DWR_RD0524_01_s_2012_87				
Comment Code					
FE : Fence					
Inspector Comment					

No Photos

LM Start	5.94	Rating **	U	Issue No.	88
LM End	5.95	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.873543 °	37.873445 °
				-121.332308 °	-121.332127 °
DWR ID	DWR_RD0524_01_s_2012_88				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Cactus and Century plants on landward slope and toe.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_88\_20170316\_00141.jpg



Looking southeast at fence and cactus on landside slope and toe.

LM Start	5.96	Rating **	U	Issue No.	120
LM End	5.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.873347 °	37.873347 °
				-121.332028 °	-121.332028 °
DWR ID	DWR_RD0524_01_s_2012_120				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_120\_20170316\_00182.jpg



Looking south at untrimmed trees on landward slope and toe.

\* Location  
LS : Land Side N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable N : Not Inspected/Rated  
M : Minimally Acceptable C : Corrected  
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement



**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	6.00	Rating **	C	Issue No.	933
LM End	6.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.873047 °	37.873047 °
				-121.331408 °	-121.331408 °
DWR ID	DWR_RD0524_01_s_2012_933				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					
Landowner cut steps into landside slope.					

No Photos

LM Start	6.02	Rating **	M	Issue No.	191
LM End	6.02	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.872844 °	37.872844 °
				-121.331070 °	-121.331070 °
DWR ID	DWR_RD0524_01_s_2014_191				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Cactus at landward toe.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable                      N : Not Inspected/Rated M : Minimally Acceptable        C : Corrected U : Unacceptable                  A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	6.15	Rating **	M	Issue No.	970
LM End	6.15	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.871138 °	37.871138 °
				-121.330146 °	-121.330146 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:18392					
DS_ID:20641					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe and pump abandoned and should be done so properly.					
FIELD_STRUCT_DESC: *ABANDONED*10-inch pipe through levee 12.0 feet below crown, pump on the waterward slope. Originally included in the 1964 O&M manual.					
FS Date: 8/23/2013					

Photo 1 of 2 : UCIP\_SP\_2017\_18392\_30910.jpg



Pump and open pipe visible on WS slope.

LM Start	<b>6.15</b>	Rating **	M	Issue No.	<b>970 (cont)</b>
LM End	<b>6.15</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP\_SP\_2017\_18392\_30909.jpg



Pipe and concrete standpipe visible on LS toe.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	6.15	Rating **	M	Issue No.	971
LM End	6.15	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.871118 °	37.871118 °
				-121.330137 °	-121.330137 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:22073 DS_ID:24052 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Abandoned and should be done so properly. FIELD_STRUCT_DESC: *ABANDONED* 1.75-inch galvanized iron electrical conduit through the levee 1-foot below the crown. Power pole on LS toe. FS Date: 8/23/2013					

Photo 1 of 2 : UCIP\_SP\_2017\_22073\_37670.jpg



Pipe visible on LS slope.

LM Start	<b>6.15</b>	Rating **	M	Issue No.	<b>971 (cont)</b>
LM End	<b>6.15</b>	Issue Type +	En	Location *	LS

Photo 2 of 2 : UCIP\_SP\_2017\_22073\_37669.jpg



Pipe visible on WS slope.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	6.15	Rating **	U	Issue No.	81
LM End	6.15	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.871097 °	37.871097 °
				-121.330100 °	-121.330100 °
DWR ID	DWR_RD0524_01_s_2015_81				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Large tree fallen across levee crown blocking access. Fallen tree branches and limbs left on landward slope.					

Photo 1 of 4 : SP\_2017\_RD0524\_107\_81\_20170316\_00131.jpg



Looking west at tree branches and limbs left on landward shoulder and slope. (Spring 2016)

LM Start	<b>6.15</b>	Rating **	U	Issue No.	<b>81 (cont)</b>
LM End	<b>6.15</b>	Issue Type +	Ma	Location *	LS

Photo 2 of 4 : SP\_2017\_RD0524\_107\_81\_20170316\_00132.jpg



Looking south at tree branches and limbs left on landward shoulder and slope. (Spring 2016)

LM Start	<b>6.15</b>	Rating **	U	Issue No.	<b>81 (cont)</b>
LM End	<b>6.15</b>	Issue Type +	Ma	Location *	LS

Photo 3 of 4 : SP\_2017\_RD0524\_107\_81\_20170316\_00133.jpg



Looking southwest at large tree across levee crown. (Fall 2015)

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	6.15	Rating **	U	Issue No.	81 (cont)	
LM End	6.15	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Encroachments			37.871097 °	37.871097 °	
				-121.330100 °	-121.330100 °	
DWR ID	DWR_RD0524_01_s_2015_81					
Comment Code						
TR : Tree or limb						
Inspector Comment						
Large tree fallen across levee crown blocking access. Fallen tree branches and limbs left on landward slope.						

Photo 4 of 4 : SP\_2017\_RD0524\_107\_81\_20170316\_00134.jpg



Looking south at large tree across levee crown. (Fall 2015)

LM Start	6.17	Rating **	U	Issue No.	98
LM End	6.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.870842 °	37.870842 °
				-121.330000 °	-121.330000 °
DWR ID	DWR_RD0524_01_s_2012_98				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_98\_20170316\_00157.jpg



Looking southeast at untrimmed trees at landward toe.

LM Start	6.17	Rating **	M	Issue No.	97
LM End	6.17	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.870840 °	37.870840 °
				-121.329993 °	-121.329993 °
DWR ID	DWR_RD0524_01_s_2012_97				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2017**

**Reclamation District No. 0524 Middle Roberts Island**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.20	04/04/2017 04/05/2017	Richard Willoughby

LM Start	6.20	Rating **	U	Issue No.	86
LM End	6.20	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.870388 °	37.870388 °
				-121.329840 °	-121.329840 °
DWR ID	DWR_RD0524_01_s_2016_86				
Comment Code					
PR : Prunings					
Inspector Comment					
Large pruning pile left at landward toe. After farmer cleared field.					

Photo 1 of 1 : SP\_2017\_RD0524\_107\_86\_20170316\_00140.jpg



Looking west at prunings at landward toe and berm.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement